

US EPA RECORDS CENTER REGION 5



478366



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## Report

### CONSTRUCTION REPORT – PASSIVE VENTILATION TRENCH ADDITION

Prepared for: Himco Dump Superfund Site  
Elkhart, Indiana

#### **Conestoga-Rovers & Associates**

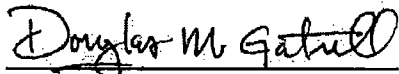
14496 Sheldon Road, Suite 200  
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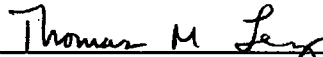


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To the best of my knowledge, I certify that the Passive Ventilation Trench Addition has been completed in full satisfaction of the requirements of the Statement of Work.



Douglas M. Gatrell, P.E.  
Indiana PE #PE19800275



Thomas M. Lenz, Performing Settling  
Defendants Alternate Project Coordinator

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### List of Acronyms

|                   |  |
|-------------------|--|
| AMP               | Air Monitoring Program                                 |
| bgs               | Below Ground Surface                                   |
| CD                | Consent Decree   |
| CDA               | Construction Debris Area                               |
| Closure Criteria  | IDEM Residential and Industrial Default Closure Levels |
| CRA               | Conestoga-Rovers & Associates                          |
| CRA, 2008         | Remedial Design Work Plan                              |
| CRA, 2010         | Final Design Report                                    |
| DCB               | Dichlorobenzene  |
| ft AMSL           | feet Above Mean Sea Level                              |
| HASP              | Health and Safety Plan                                 |
| IDEM              | Indiana Department of Environmental Management         |
| LFG               | Landfill Gas   |
| MIMP              | Methane Investigation and Monitoring Plan              |
| MRAP              | Methane Remedial Action Plan                           |
| NPL               | National Priority List                                 |
| O&M Plan          | Operation and Maintenance Plan                         |
| PAHs              | Polynuclear Aromatic Hydrocarbons                      |
| PCE               | Tetrachloroethene                                      |
| PVT               | Passive Ventilation Trench                             |
| PSDs              | Performing Settling Defendants                         |
| PVC               | Polyvinyl Chloride                                     |
| QA/QC             | Quality Assurance/Quality Control                      |
| RA                | Remedial Action  |
| RAWP              | Remedial Action Work Plan                              |
| RC                | Remedial Contractor                                    |
| RD/RA             | Remedial Design/Remedial Action                        |
| RD Work Plan      | Remedial Design Work Plan                              |
| RI                | Remedial Investigation                                 |
| RI/FS             | Remedial Investigation/Feasibility Study               |
| ROD               | Record of Decision                                     |
| ROD-A             | Amended Record of Decision                             |
| SEC Donohue, 1992 | Remedial Investigation and Feasibility Study           |

**List of Acronyms**

|             |  |
|-------------|--|
| SGP         | Soil Gas Probe   |
| Site        | Himco Site   |
| SOW         | Statement of Work  |
| SSI         | Supplemental Site Investigation  |
| SSI/SCR     | Supplemental Site Investigation/Site Characterization Report   |
| SVOC        | Semi Volatile Organic Compound   |
| SWPPP       | Stormwater Pollution Prevention Plan   |
| TAL         | Target analyte list  |
| TCE         | Trichloroethene  |
| TMB         | Trimethylbenzene   |
| USACE       | United States Army Corps of Engineers  |
| USACE, 1996 | Final Design Analysis Report   |
| USEPA       | United States Environmental Protection Agency  |
| USEPA, 2002 | USEPA's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils |
| USCS        | Unified Soil Classification System   |
| VAS         | Vertical Aquifer Sampling  |
| VOC         | Volatile Organic Compound  |

## Section 1.0 Introduction

The Performing Settling Defendants (PSDs), collectively known as the Himco Site Trust, retained Conestoga-Rovers & Associates (CRA) to prepare this Passive Ventilation Trench (PVT) Addition Construction Completion Report (Report) for the Himco Dump Superfund Site (Site) in Elkhart, Indiana. CRA prepared the Report in accordance with Section XIV, Paragraph 50 of the 2007 Consent Decree (CD) for Remedial Design and Remedial Action (RD/RA). This Report also satisfies Section IV, Item 15 and Item 16, which require both a construction completion report and a completion of remedial action report.

### 1.1 General

The Site is a closed landfill located at the intersection of County Road 10 and John Weaver Parkway (former Nappanee Street Extension) in Elkhart County, Indiana. The Site covers approximately 100 acres in the Northeast  $\frac{1}{4}$  of Section 36, Township 38 North, Range 4 East in Cleveland Township, of which approximately 65 acres is the landfill proper. The landfill accepted waste including household refuse, construction rubble, medical waste, and calcium sulfate between 1960 and 1976. The landfill was closed and covered with a 1-foot layer of sand overlying a layer of calcium sulfate in 1976.

The Site location is shown on Figure 1.1. A Site plan is provided on Figure 1.2.

According to the Remedial Investigation and Feasibility Study (RI/FS) (SEC Donohue, 1992), the Site consists of two major areas: the calcium sulfate-covered landfill and the 4-acre construction debris area (CDA). The CDA was subdivided into seven residential properties and one commercial property parcel. The commercial property is not currently occupied or being used for any purpose. The CDA and its boundaries were defined primarily from 13 test trenches excavated in 1991 during the second phase of field studies for the Remedial Investigation (RI).

From 1974 to 1992, a number of environmental investigations were completed at the Site including a RI/FS in 1989-1992 by SEC Donohue. The United States Environmental Protection Agency (USEPA) added the Site to the National Priorities List (NPL) on February 21, 1990 before implementation of the RI/FS began. Upon completion of the RI/FS, the USEPA issued a Record of Decision (ROD), executed on September 30, 1993, which identified the selected RA for the Site. Subsequent to the ROD, additional environmental investigations were completed. An Amended ROD (ROD-A) was issued on September 15, 2004. The ROD-A defined the remedial actions (RA) for the landfill cover, CDA soil removal, groundwater, and air components of the RD/RA for the Site. The lead Agency for the Site is USEPA Region 5. Indiana Department of Environmental Management (IDEM) is the support Agency.

Pre-design investigations commenced at the Site in 2008. Groundwater monitoring commenced in 2008 and is ongoing. In accordance with the CD, remedial design was completed in three stages (60%, 90%, and 100%). USEPA issued approval of the Pre-Design Investigation/100% Final Design Report (CRA, 2010) (hereafter referred to as the "Final Design Report") and notice to proceed with the Remedial Action Work Plan (RAWP) on July 21, 2010. The RD/RA was completed in 2010 through 2012, pursuant to the CD, which became effective on November 27, 2007.

During the Operations and Maintenance Plan (O&M Plan) monitoring event in September 2012, methane was detected at elevated concentrations above the action level (5 percent by volume) in soil gas probes (SGPs) 107, 110, and 114, which are located along the south boundaries of the Site. CRA monitored the SPGs daily and then weekly from September 21, 2012 to October 19, 2012. A Methane Investigation and Monitoring Plan (MIMP) was developed by CRA and approved by the USEPA on November 6, 2012. The MIMP involved the installation of seven new SGPs (SGPs 115, 116, 117S/D, 118, and 119S/D) to delineate the source of the methane, weekly monitoring over four weeks, an evaluation of the collected data, and development of recommended next action steps. The United States Army Corps of Engineers (USACE) and IDEM were on Site to observe the SGP installations in December 2012. Figure 1.2 includes the locations of the additional SGPs.

In accordance with the MIMP, CRA monitored the new SGPs and SGPs 107, 108, 109, 110, 114, 13, 14, 15, and 27S/D once per week between December 28, 2012 and January 17, 2013. The monitoring at these SGPs included measuring soil gas pressure and soil gas quality (methane, carbon dioxide, oxygen, and balance gas concentrations on a percent-by-volume basis) using a Dwyer digital manometer and a GEM 2000 gas meter, respectively.

Methane was detected above the action level (5 percent) in SGPs 107, 108, 109, 114, 115, 116, and 118 at least once, and hydrogen sulfide was detected in concentrations greater than the action level (4.4 percent) at SGP 114 for two readings during the MIMP monitoring event. A Methane Remedial Action Plan (MRAP) was proposed by CRA on June 28, 2013, and revised by CRA and approved by the USEPA on August 13, 2013. The MRAP consisted of the installation of two additional PVTs; one located between SGPs 107, 108, and 109, and SGPs 14, 15, and 16 on the south boundary of the Site, and one between SGP 114 and 119S/D on the southwest boundary of the Site.

## **1.2 Report Organization**

This Report is organized as follows:

- Section 2.0 provides background information on the Site

- Section 3.0 describes the problem statement and a description of the construction activities
- Section 4.0 describes Site preparation activities completed at the onset of remedial construction
- Section 5.0 describes surface water management
- Section 6.0 describes construction of the PVT
- Section 7.0 describes the meeting and inspections completed during the remedial construction
- Section 8.0 describes the operation and maintenance activities planned for the remedial action

The Record Drawings for the MRAP construction are provided with this report.

## **Section 2.0 Site Background and Setting**

### **2.1 Site Description**

The Site is a closed landfill located at the intersection of County Road 10 and John Weaver Parkway in Cleveland Township, Elkhart County, Indiana. According to the ROD-A, the Site accepted waste including household refuse, construction rubble, medical waste, and calcium sulfate between 1960 and 1976. Prior to the RA, the topography of the landfill was varied with two high points located on the northwest and east sides of the Site at an approximate elevation of 772 feet above mean sea level (ft AMSL). The perimeter elevation of the landfill is approximately 761 ft AMSL. The landfill was closed and covered with a 1-foot layer of sand overlying a layer of calcium sulfate in 1976. The CDA bordering the southern perimeter of the landfill consisted of construction rubble mixed with non-native soil. Numerous small piles of rubble concrete, asphalt, and metal debris were scattered throughout the area. The calcium sulfate layer found at the landfill was not present in the CDA.

According to Supplemental Site Investigations/Site Characterization Report (SSI/SCR) (USEPA, 2002), the landfill and surrounding areas were initially marsh and grassland. No liner, leachate collection, or gas recovery system was constructed as part of the landfill. Refuse was placed at ground surface across the Site, with exception of trench filling in the eastern area of the Site. In this area, the Site operator excavated five trenches 10 to 15 feet (ft) deep, the width of a truck and 30 ft long. Paper refuse was reportedly dumped in the trenches and burned. The exact locations of these trenches within the landfill are unknown. Approximately two thirds of the waste in the landfill is calcium sulfate (SEC Donohue, 1992). Other wastes accepted at the landfill included demolition/construction debris, household refuse, and industrial and hospital wastes. The landfill had no specifically-defined borrow source, but obtained sandy soil for daily cover from an abandoned gravel pit to the north, ponded areas to the west, and essentially anywhere around the perimeter of the Site where sand was available.

The abandoned gravel pit north of the Site, commonly referred to as the Quarry Pond, is filled with water. The two other smaller ponds on the west side of the Site are commonly referred to as the L Pond and the Little Pond. The typical surface water elevation ranged from 754.8 to 757.84 ft AMSL in April 2012.

The waste on Site is in contact with the water table. The RI/FS states that residents near the Site reported complaints of color, taste, and odor problems in shallow water supply wells as early as 1974. Deeper potable water supply wells were installed for some residents in the 1970s. The USEPA Emergency and Response Branch sampled these wells in late April 1990. Elevated concentrations of sodium in samples from these deeper water supply wells eventually led to the USEPA's requirement to supply municipal water to the residents south of the Site in 1990.

## **2.2 Summary of Investigations**

On behalf of the USEPA, SEC Donohue completed the RI in 1991-1992 to characterize the contamination in soil samples collected from the landfill cover and areas next to the cover. SEC Donohue also sampled soil in the CDA during the 1998 SSI to characterize the nature of soil contamination.

The first attempt at defining the limit of waste occurred in 1992 using a combination of geophysical surveys, test pit and soil boring observations, and examination of aerial photos (SEC Donohue, 1992). The landfill limit of waste was further defined in 1996 using information contained in the Final Design Analysis Report (United States Army Corps of Engineers [USACE], 1996).

The USACE completed two supplemental soil gas investigations that were performed between 1998 and 1999. The 1998 soil gas investigation concentrated primarily on the area south of the landfill to County Road 10, with limited investigations east of the landfill towards John Weaver Parkway.

In order to further delineate and understand the extent of conditions on-Site, CRA completed a pre-design investigation in accordance with the RD Work Plan (CRA, 2008). The pre-design investigation was designed to delineate the limits of the landfill and characterize on-Site cover soil, where present, for thickness, nutrients, vegetation, and grain size. CRA also sampled soil in the CDA, landfill gas (LFG)/soil gas, and groundwater to supplement existing information and aid in the development of an appropriate remedy. The remedy addresses the CDA, the main landfill, and will prevent off-Site migration of LFG/soil gas present at the Site.

The pre-design investigation consisted of advancing 246 landfill cover soil borings, excavating 17 test trenches and five test pits, completing vertical aquifer sampling (VAS) at eight locations, installing 29 soil

gas probes, collecting 74 soil samples (including quality assurance/quality control [QA/QC] samples), collecting 62 groundwater samples from monitoring wells, collecting 121 samples from VAS boreholes, and collecting 61 soil gas samples (including QA/QC samples).

The landfill limit delineation determined that the actual limit of waste in the west, in the northeast sides of the landfill and the southeast part of the CDA varied significantly from the 1996 landfill limit.

The 2009 landfill limit of waste line, as defined by CRA, was produced using historic data, the results of the test trenches, and other data collected during the pre-design investigation.

The soil cover investigation determined the following:

- The thickness of soil cover at the investigated soil boring locations varied from 0 to 2 ft, the average thickness of cover at the boring locations was approximately 0.8 ft, and approximately one third of the boring locations at the Site had 0 to 0.4 ft of existing soil cover
- The Unified Soil Classification System (USCS) soil classifications for samples collected from the landfill soil cover were a poorly graded sand, gravelly sand, or silty sand
- The results of the analysis were not conclusive as to the ability of the landfill soil cover to grow vegetation based on criteria provided from A & L Great Lakes Laboratories, Inc., and the amount of coverable cover soil was too small to make it cost effective for reuse
- Of the 21 soil sample locations where samples contained volatile organic compounds (VOC) detections, none of the sample concentrations were greater than the IDEM Residential and Industrial Default Closure Levels (closure criteria)

The December 2008 soil samples collected within the CDA contained several polynuclear aromatic hydrocarbons (PAHs) in both surface and subsurface soil samples, and two semi-volatile organic compounds (SVOCs) (bis[2-Ethylhexyl]phthalate and dibenzofuran). Eighteen of the 23 target analyte list (TAL) metals were detected at least once. Arsenic was detected at concentrations greater than the closure criteria in soil samples from the CDA. Lead was detected at concentrations less than the closure criteria in soil samples collected from the CDA. The December 2008 soil samples illustrated that criteria exceedances were detected in samples from two locations adjacent to the landfill and on residential properties. Soil samples collected at one location in the southern portion of the landfill also contained parameter concentrations at concentrations exceeding the closure criteria.

Concentrations of seven VOCs (1,2,4-trimethylbenzene [TMB], 1,3,5-TMB, 1,4-DCB, benzene, perchloroethylene [PCE], trichloroethylene [TCE] and vinyl chloride) in LFG/soil gas samples collected at two locations on the southeast corner of the landfill exceeded the IDEM Indoor Air Criteria.

The September and October 2012 soil gas monitoring per the Final O&M Plan (CRA 2012), detected methane at elevated concentrations above the action level (5 percent by volume) in SGPs 107, 110, and 114. A MIMP was developed by CRA which involved the installation of seven new SGPs (SGPs 115, 116, 117S/D, 118, and 119S/D) to delineate the source of the methane, weekly monitoring over 4 weeks, an evaluation of the collected data, and development of recommended next action steps.

CRA monitored the new SGPs and SGPs 107, 110, 114, 13, 14, 15, and 27S/D once per week between December 28, 2012 and January 17, 2013. Methane was detected above the action level in SGPs 107, 108, 109, 114, 115, 116, and 118 at least once, and hydrogen sulfide was detected in concentrations greater than the action level (4.4 percent) in SGP 114 for two readings during the MIMP monitoring event.

## **2.3 Site Setting**

The Site is bordered to the north by the Quarry Pond and agricultural land; to the east by John Weaver Parkway and beyond by residential properties; to the south by residential properties and County Road 10; and to the west by undeveloped land and agricultural properties.

The Site is currently fenced. Locked access gates are present at the southeast corner of the Site and near the southwestern corner of the Site. A man gate is located on the west side of the Site.

## **Section 3.0 Overall Strategy and Design**

### **3.1 Problem**

Methane and hydrogen sulfide were detected at elevated concentrations above the action levels (5 and 4.4 percent by volume, respectfully) in SGPs 107, 108, 109, 114, 115, 116, and 118 between September 2012 and January 2013. Methane can pose a human health risk due to the explosive properties of the gas in the right concentration limits, and hydrogen sulfide is denser than air, which can lead to the expelling of breathable air from low lying structures such as a basement or sewer resulting in an asphyxiation hazard.



### **3.2 Remedy**

A MRAP was developed by CRA which proposed the installation of two new PVTs between SGPs which had detections of methane and hydrogen sulfide above action levels. The PSDs retained the construction division of CRA to construct the remedy and act as a Remedial Contractor (RC). CRA commenced remedial construction per the MRAP in October 2013 and completed construction in November 2013. A photographic log of the MRAP construction activities is provided as Appendix A.

## **Section 4.0 Site Preparation**

### **4.1 Health and Safety**

CRA implemented the Health and Safety Plan (HASP) during PVT installation activities. The HASP was amended, as appropriate, prior to the remedial construction. The HASP provided specific guidelines and procedures for the protection of personnel performing PVT installation activities.

The HASP was developed in accordance with applicable standards and defined the following:

- Levels of protection
- Safe work practices and safe guards
- Medical surveillance
- Personal and environmental air monitoring
- Personal protective equipment
- Personal hygiene
- Decontamination for personal and equipment
- Site work zones
- Contaminant control
- Contingency and emergency planning
- Logs, reports and record keeping

CRA provided a Site-specific HASP orientation to Site workers on October 15, 2013. CRA maintained daily sign-in sheets and health and safety records on Site during construction. CRA implemented the Air Monitoring Program (AMP) in accordance with the HASP when excavation commenced on Site.

## **Section 5.0 Surface Water Management and Permits**

CRA prepared a Stormwater Pollution Prevention Plan (SWPPP) that detailed specific sediment and erosion control measures implemented at the Site during construction. The Elkhart County Soil and Water District issued a SWPPP permit to the Site on September 27, 2013; a copy of the permit is included in Appendix B.

## **Section 6.0 Passive Ventilation Trench**

### **6.1 Passive Ventilation Trench Construction**

CRA installed two PVTs along the south and west boundaries of the landfill, as shown on Figures 6.1 and 6.2 respectively. The alignment of the two new PVTs was based on the MRAP, which proposed installing the southern PVT between SGPs 107, 108, and 109, and SGPs 14, 15, and 16, and the western PVT between SGPs 114 and 119S/D.

The PVT construction details are shown on Figure 6.3. Consistent with the Final Design Report, CRA constructed the PVTs with approximately 844 linear ft of slotted 4-inch Schedule 40 polyvinyl chloride (PVC) piping within a trench filled with a porous gravel column. The southern PVT was installed from October 16 and 22, 2013 using a Komatsu 308 excavator with a trench box and Komatsu 320 wheeled front end loader to create an approximately 3 ft wide and from 9-12 ft bgs deep trench with approximately 600 linear ft of slotted 4-inch PVC piping. The slotted pipe was placed approximately 5-8 ft bgs in the southern trench which was 2 ft above the water table at the time of installation in October 2013 as shown on Figure 6.4.

The western PVT was installed from October 23 and 25, 2013 using a Komatsu 308 excavator with a trench box and Komatsu 320 wheeled front end loader to create an approximately 3 ft wide and from 10-11 ft bgs deep trench with approximately 244 linear ft of slotted 4-inch PVC piping. The slotted pipe was placed approximately 6-7 ft bgs in the southern trench which was 2 ft above the water table at the time of installation in October 2013 as shown on Figure 6.5. There were no difficulties in completing construction installation below the water table in either PVT section.

This depth accounts for seasonal fluctuations in the groundwater elevations at the Site. CRA installed a geotextile separator over the gravel, and covered the geotextile with 6 inches of rooting zone soil and 6 inches of topsoil. The width of the porous gravel trench is such that there is at least one diameter width (4 inches) of space on each side of the lateral pipe to provide adequate support for the lateral

piping. Copies of QA/QC documents for imported materials used during PVT installation are included in Appendix C.

## **6.2 Contaminated Waste**

During excavation of the southern PVT, solid waste was encountered between 8-10 feet bgs at the western limit of the trench in the proximity of SGP-109. In accordance with construction sections 02120 (off-Site Transportation and Disposal) and 02225 (Waste Excavation and Consolidation) of the Final Design Report CRA, took the proper measures to isolate the waste from clean excavated soil. Waste encountered in the PVT excavation was stockpiled on visqueen polyethylene plastic sheeting near the southern PVT. Stockpiled soils were covered with visqueen sheeting to prevent stormwater intrusion and runoff. CRA collected a waste characterization sample, following staging of the soil, for waste disposal purposes. Analytical data indicated the waste was non-hazardous and a profile was completed for disposal in a Subtitle D landfill. After receiving approval of the waste profile, the stockpiled waste was loaded into roll-off containers which were transported off-site by Republic Services for disposal at the County Line Landfill located in Argos, IN. The waste manifest can be found in Appendix D.

## **6.3 Stockpiled Soil and Seeding**

The PVT addition SOW included placing excavated soil on low lying areas of the landfill cap. During installation, CRA determined the condition of the cap was not suitable to support heavy equipment due to recent rain events. As a result and with the approval of the PSDs, excavated soil was consolidated into stockpiles near the PVT installations. CRA will mobilize to the Site, in Spring 2014, and relocate the stockpiled soil once it is determined that the landfill cap can support heavy equipment. Grass seeding was not completed in the disturbed areas because of the stockpiled soils. Upon removal of soil stockpiles in the Spring 2014, CRA will seed disturbed areas around the PVTs and on the landfill cap in accordance with the project specifications.

# **Section 7.0 Meetings and Inspections**

## **7.1 Pre-Final Construction Inspection**

A Pre-Final Construction Inspection was conducted by CRA at the Site on October 29, 2013. CRA completed a walk-through inspection of the Site and reviewed the components of the constructed MRAP. A list of outstanding items and estimated timetable for completion is included below:

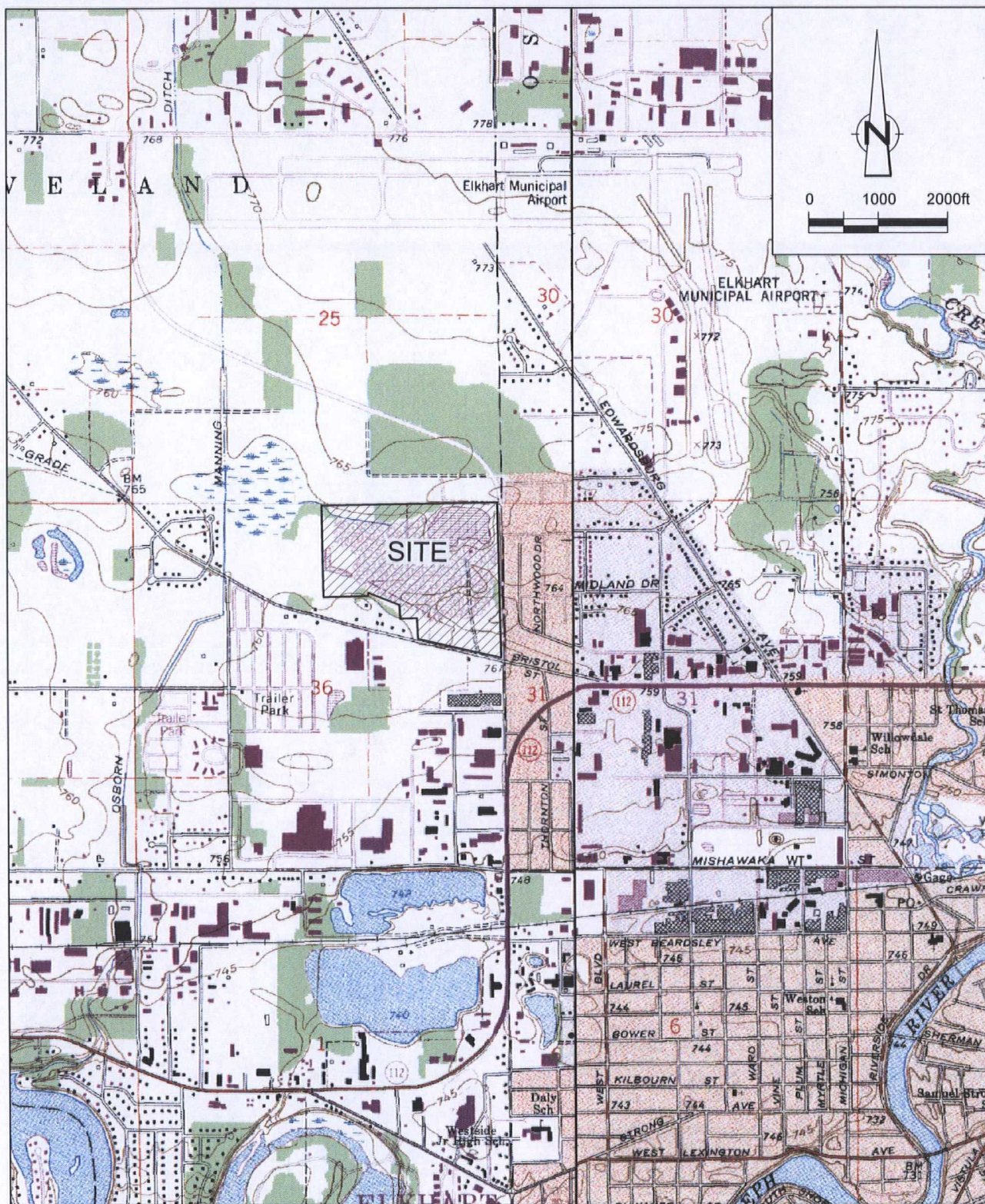
- Repair damaged fence section along northern property boundary
  - Fence repair completed on November 13, 2013
- Remove stockpiled waste from the Site
  - Stockpiled waste removed on November 13, 2013
- Relocated clean stockpiled soil from PVT excavation to landfill cap
  - Estimated to be completed in Spring 2014
- Replace seeding in areas disturbed during PVT installation
  - Estimated to be completed in Spring 2014

## **Section 8.0    Operation and Maintenance**

The Final O&M Plan will be modified to include the additional PVTs.

In accordance with the O&M Plan, the PSDs will commence six monthly O&M inspections of the PVT. The first inspection of the PVTs was completed on November 27, 2013.





SOURCE: USGS QUADRANGLE MAPS;  
ELKHART AND OSCEOLA, INDIANA

figure 1.1

SITE LOCATION MAP  
HIMCO SITE  
*Elkhart, Indiana*





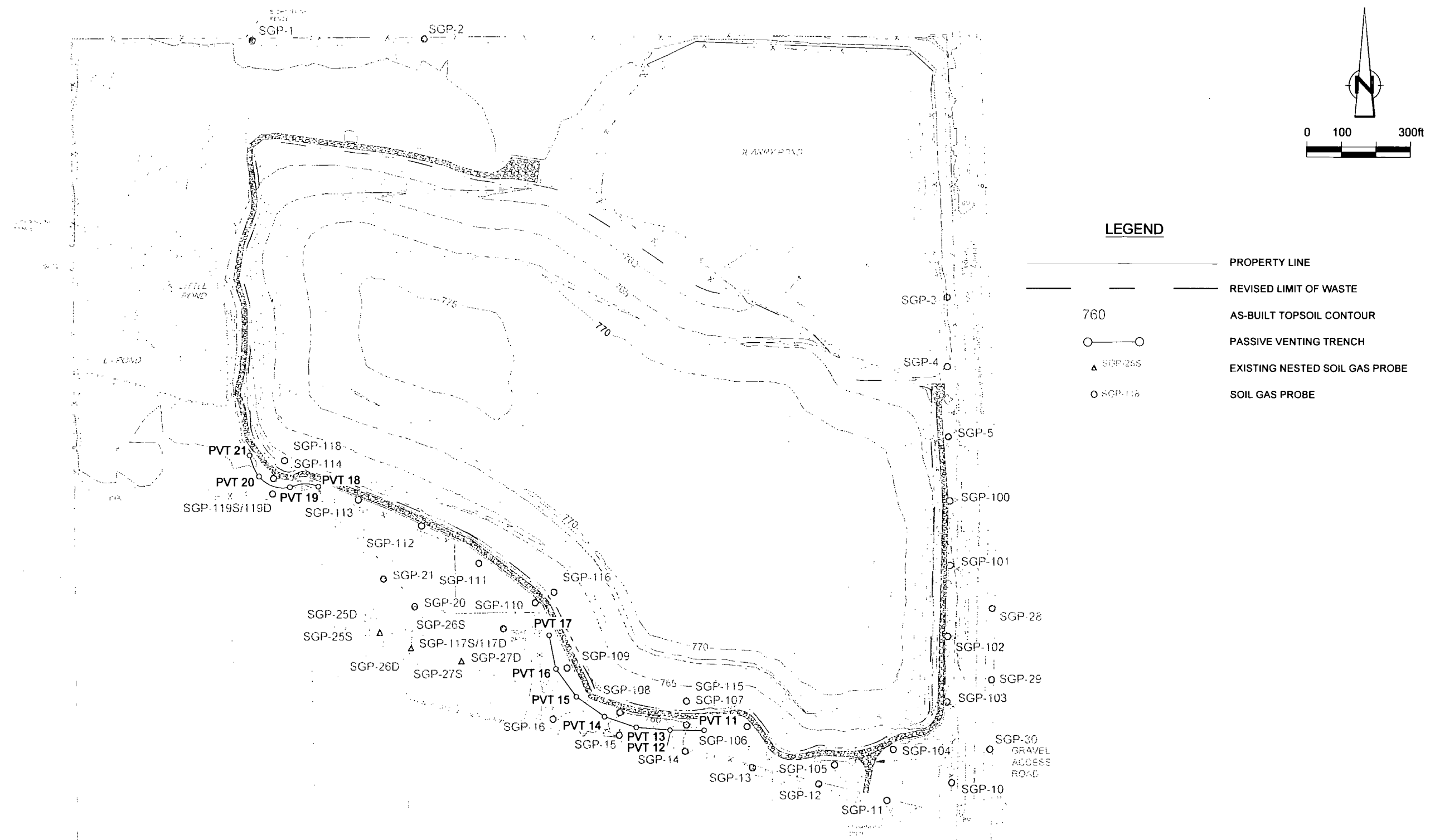


figure 1.2  
SITE PLAN  
HIMCO SITE  
Elkhart, Indiana



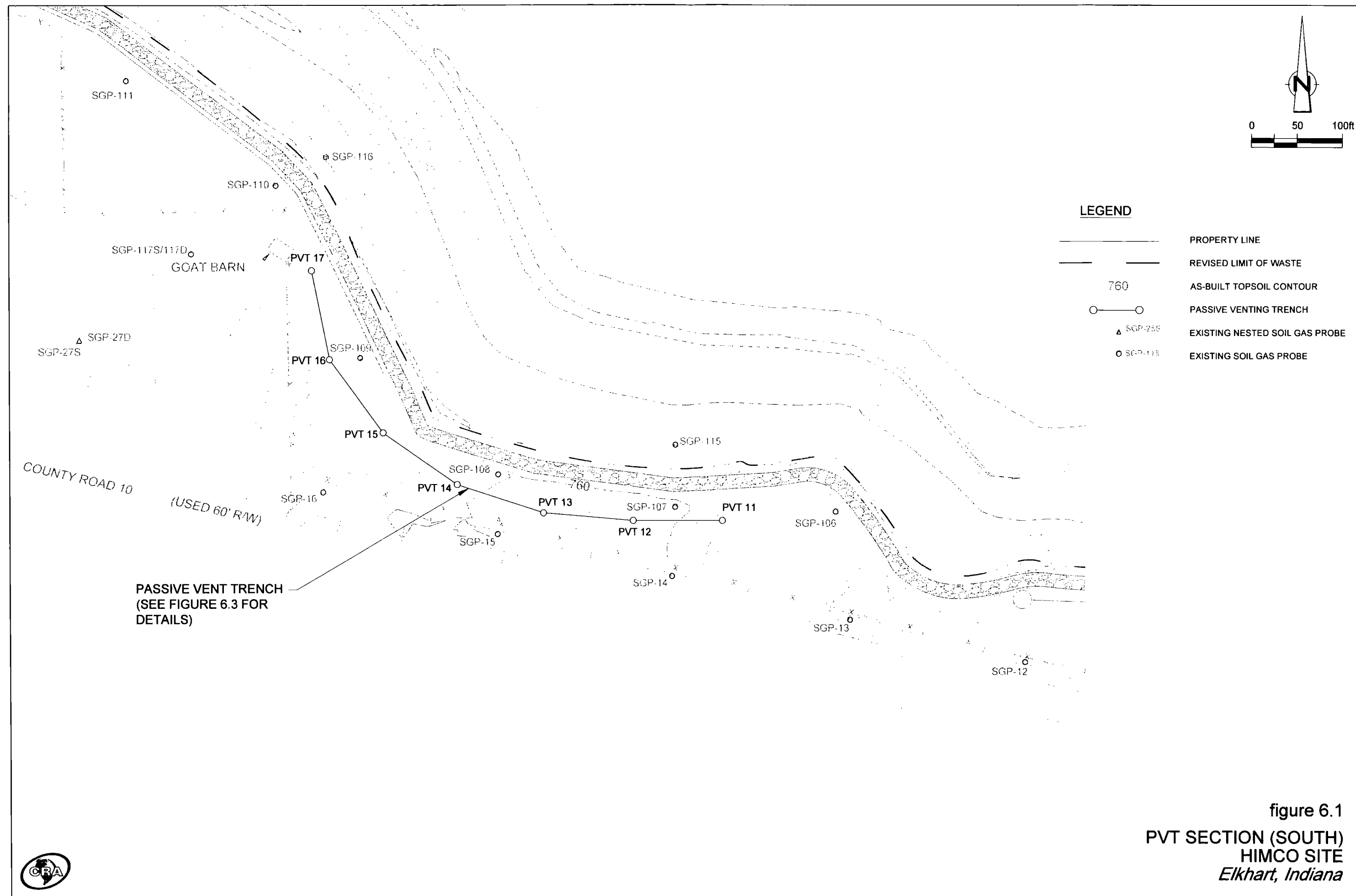
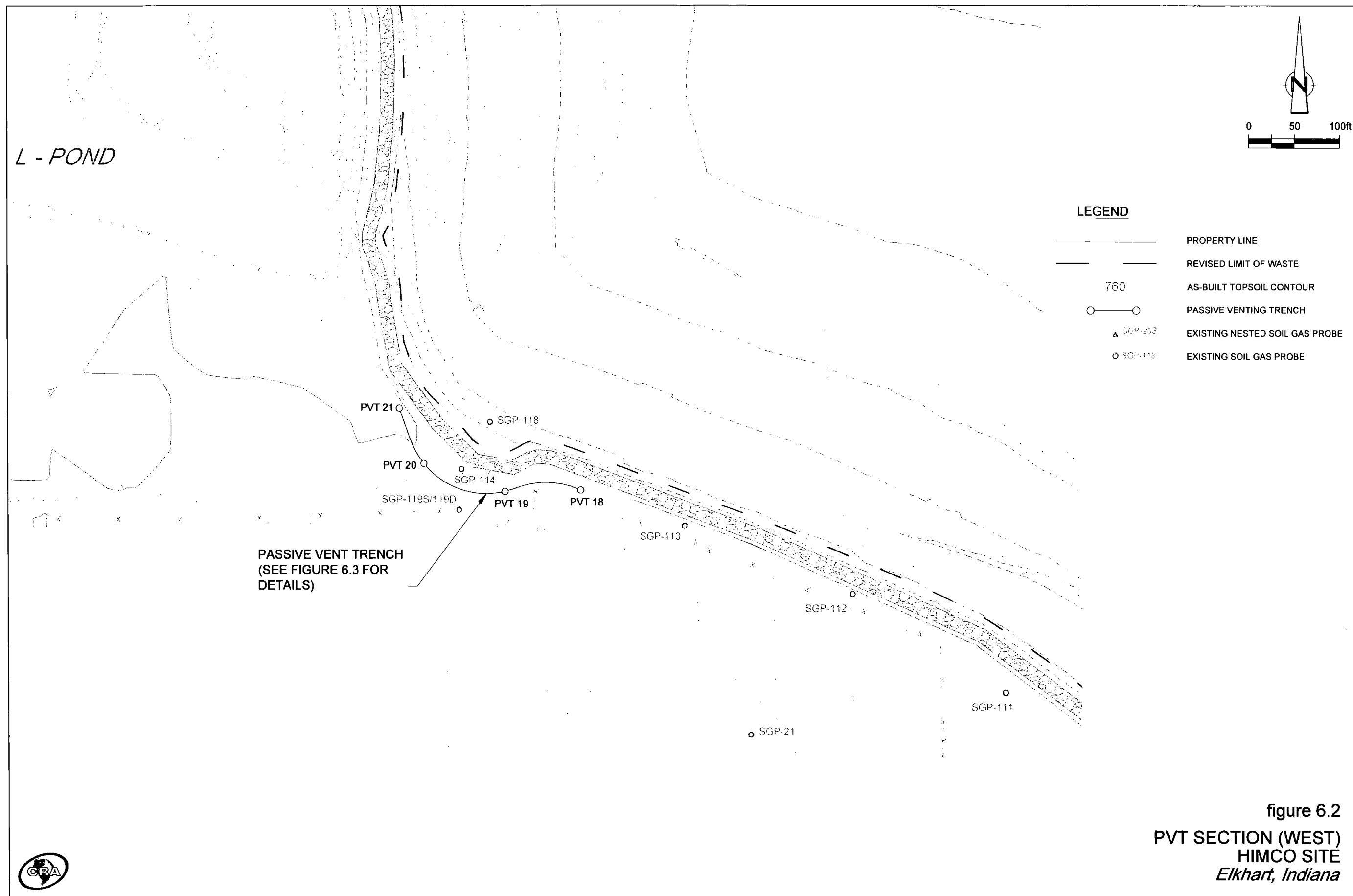


figure 6.1  
PVT SECTION (SOUTH)  
HIMCO SITE  
Elkhart, Indiana





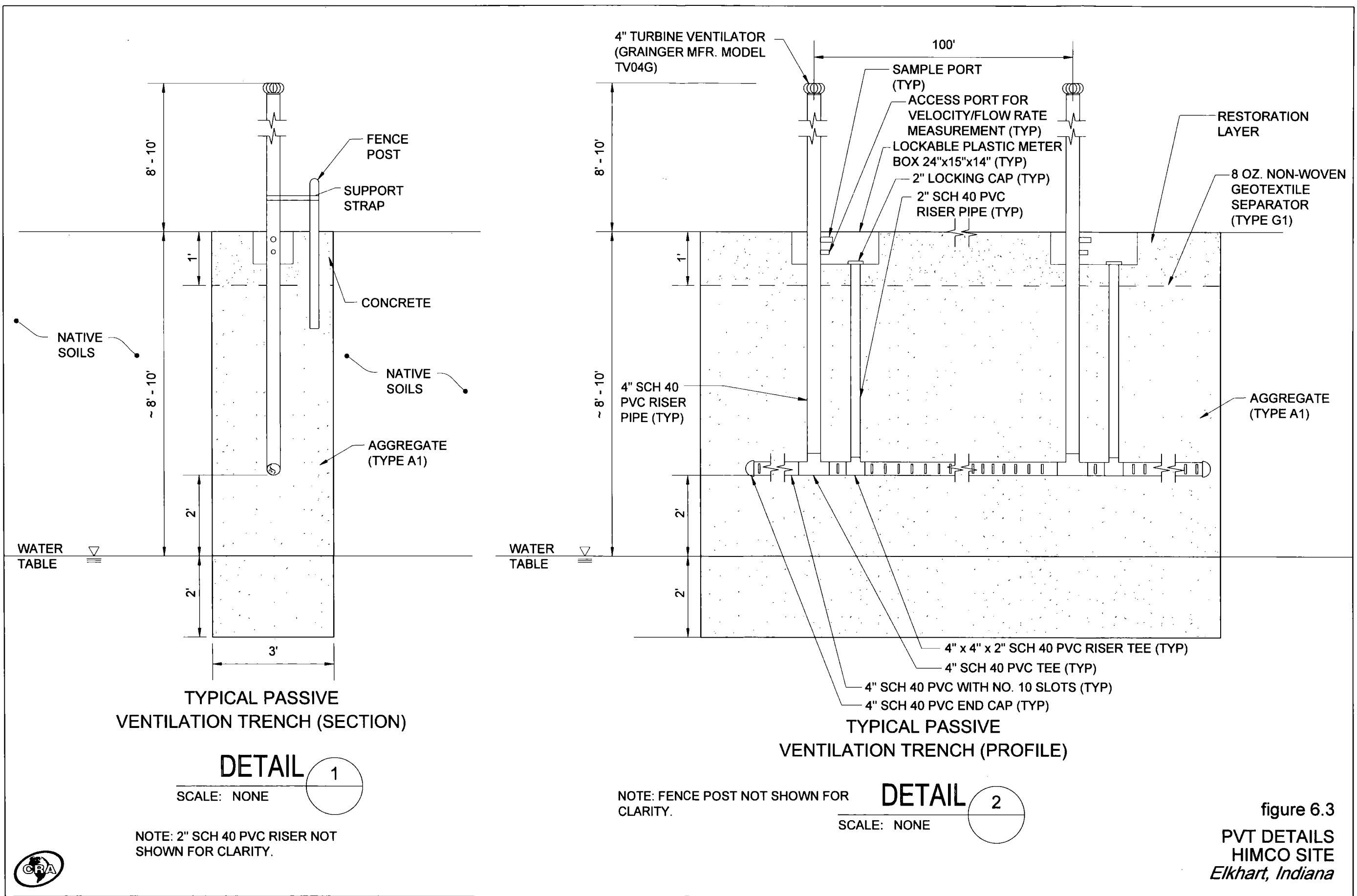
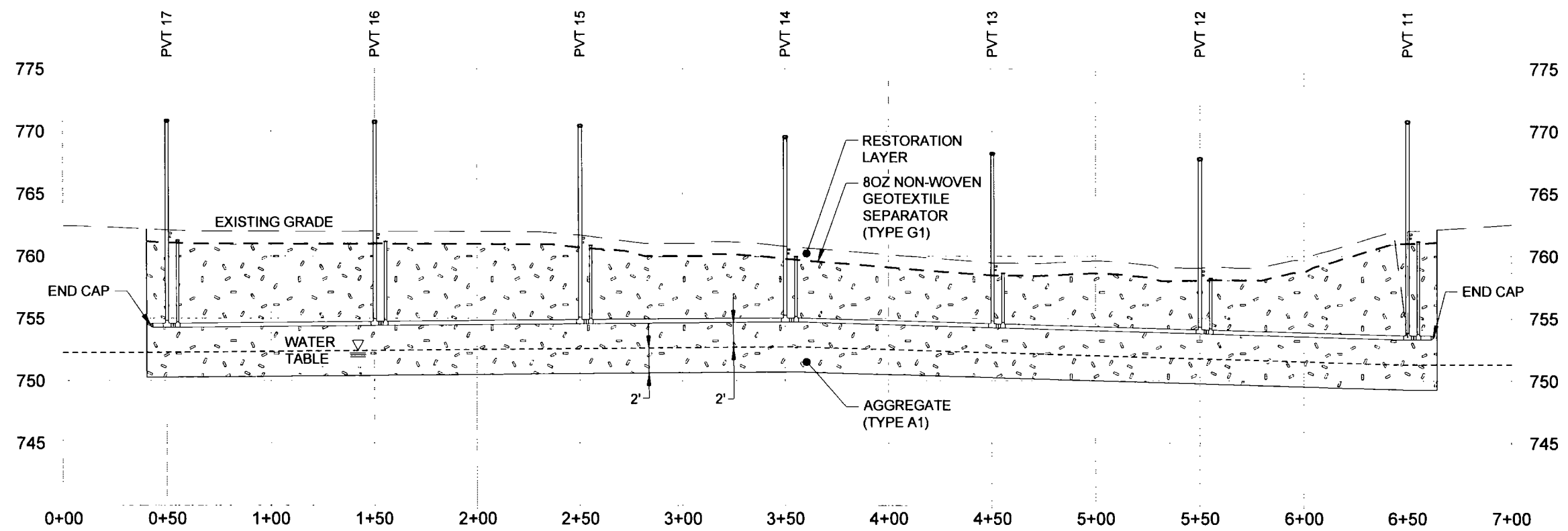


figure 6.3  
PVT DETAILS  
HIMCO SITE  
Elkhart, Indiana

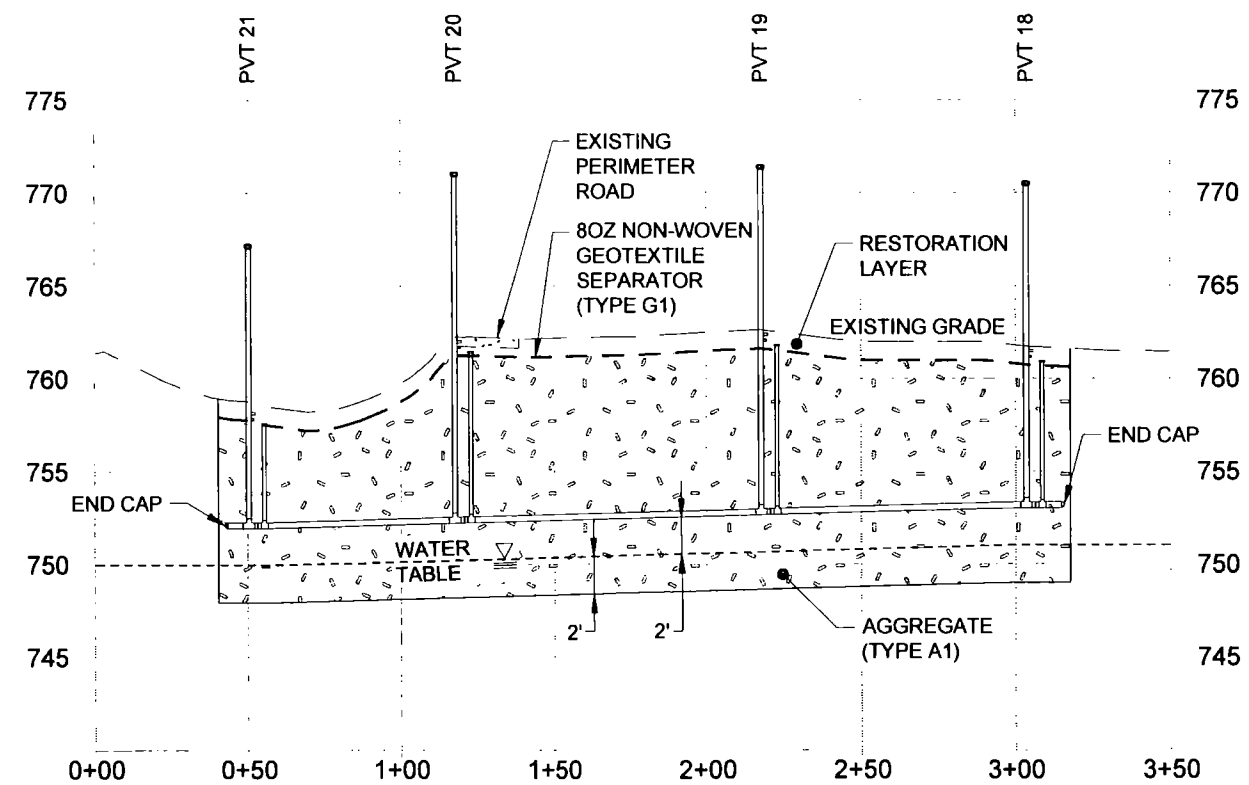




**SOUTHERN PVT SECTION**  
 HORIZ SCALE = 1" = 60'  
 VERT SCALE = 1" = 10'

figure 6.4  
**SOUTHERN PVT SECTION**  
 HIMCO SITE  
 Elkhart, Indiana





**WESTERN PVT SECTION**  
 HORIZ SCALE = 1" = 60'  
 VERT SCALE = 1" = 10'

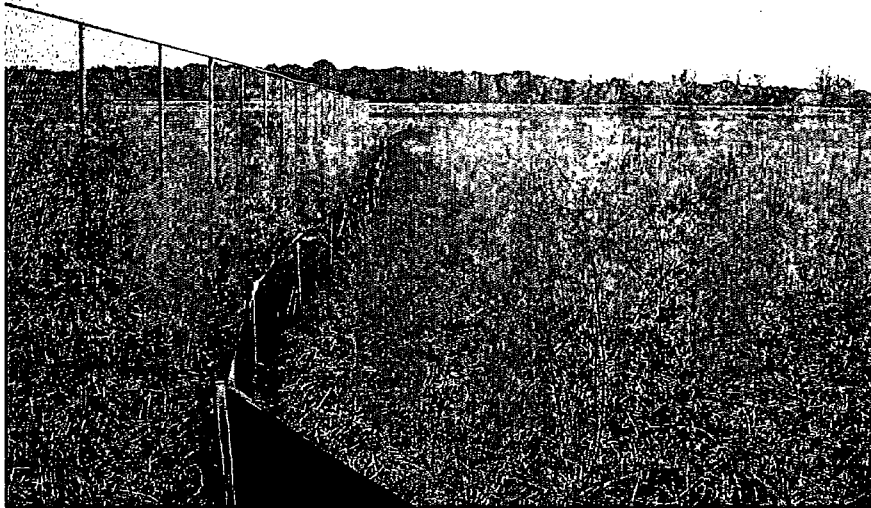
figure 6.5  
**WESTERN PVT SECTION**  
 HIMCO SITE  
*Elkhart, Indiana*





## **Appendix A**

### **Photographic Log of PVT Addition Construction**



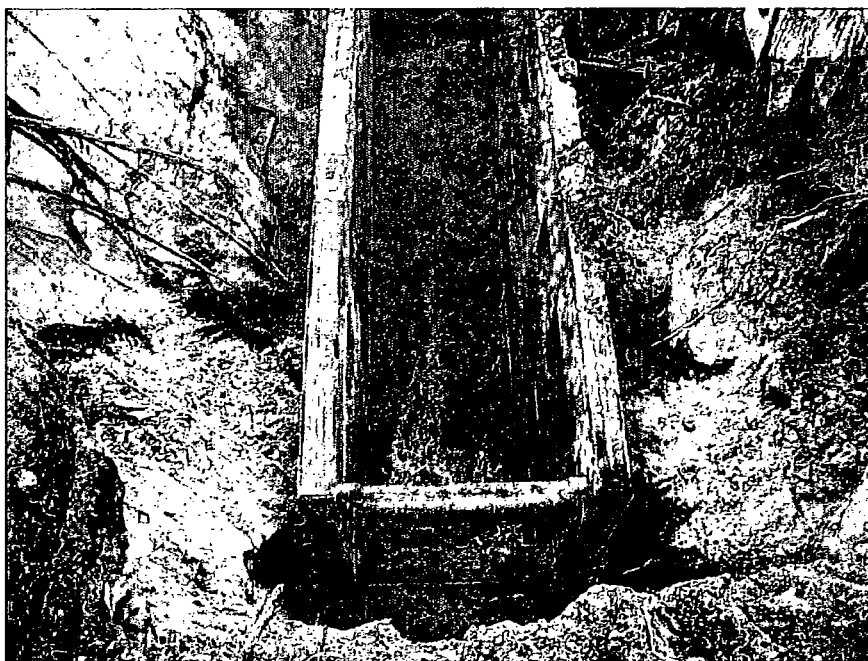
Description: Silt fence installed along southern property boundary  
 Date: 10/15/2013  
 Photographer: Dave Canfield



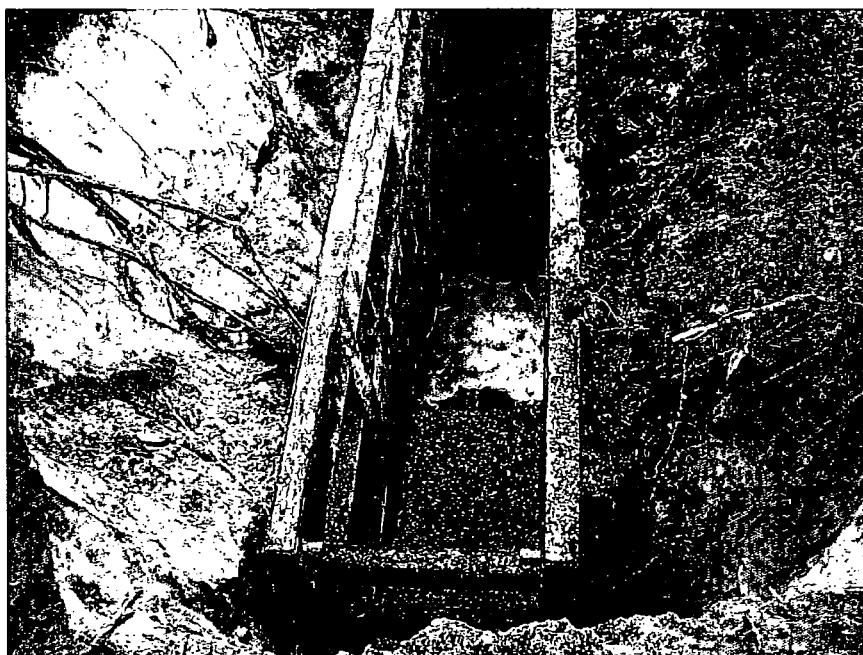
Description: Silt fence installed along southwestern property boundary  
 Date: 10/15/2013  
 Photographer: Dave Canfield



**CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION**  
**Himco Site Trust**  
**Elkhart, Indiana**



Description: Southern PVT excavation using trench box.  
Date: 10/16/2013  
Photographer: Dave Canfield



Description: Groundwater with Type A1 aggregate backfill  
Date: 10/16/2013  
Photographer: Dave Canfield





Description: PVT riser with Type A1 aggregate backfill

Date: 10/16/2013

Photographer: Dave Canfield



Description: Geotextile placement above PVT

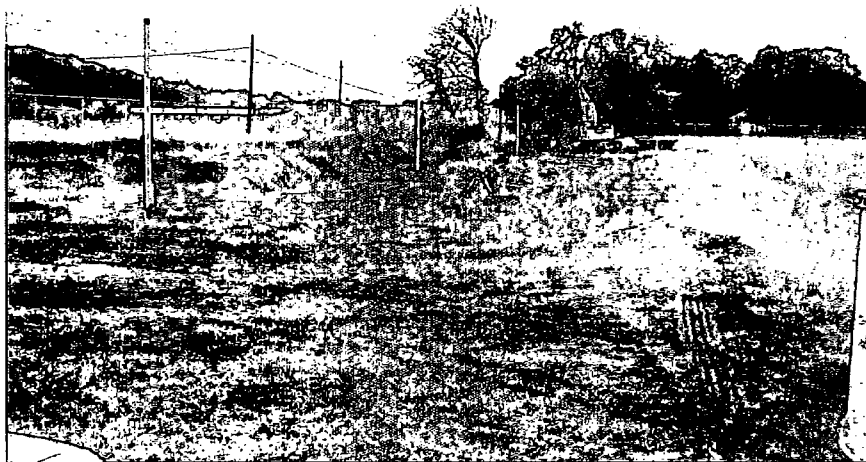
Date: 10/18/2013

Photographer: Dave Canfield



**CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION**  
**Himco Site Trust**  
**Elkhart, Indiana**

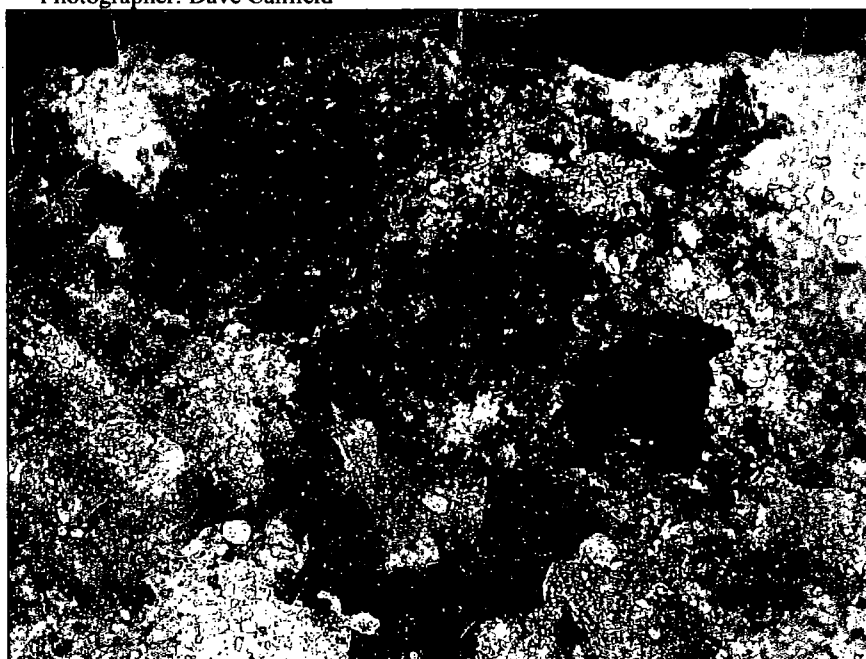




Description: Topsoil restoration above PVT

Date: 10/18/2013

Photographer: Dave Canfield



Description: Waste encountered in southern PVT

Date: 10/22/2013

Photographer: Dave Canfield



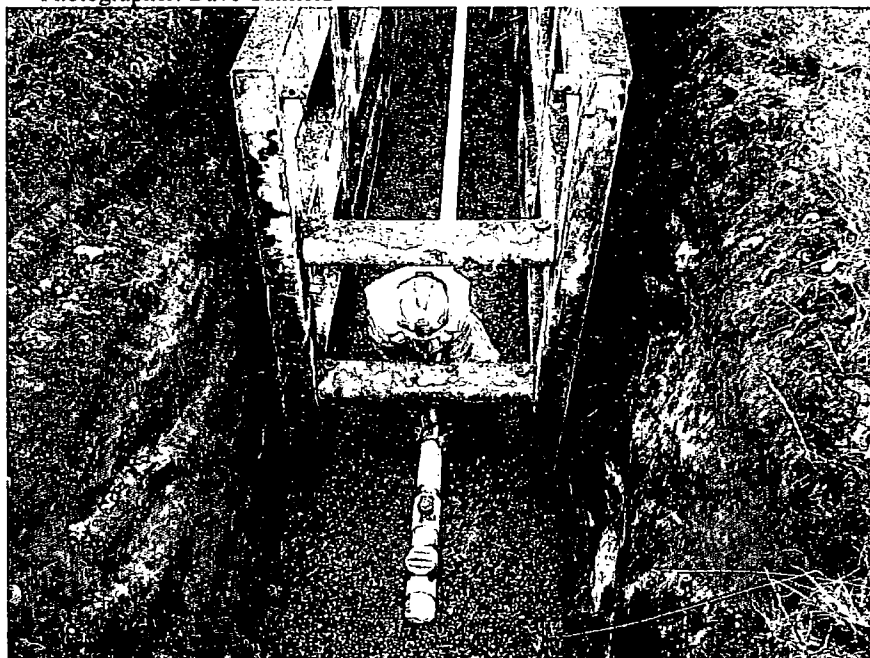
**CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION**  
**Himco Site Trust**  
**Elkhart, Indiana**



Description: Stockpiled waste covered with visqueen and clean soil for ballast over visqueen.

Date: 10/22/2013

Photographer: Dave Canfield



Description: Western PVT installation

Date: 10/23/2013

Photographer: Dave Canfield





Description: Organic soil layer encountered in western PVT excavation  
Date: 10/23/2013  
Photographer: Dave Canfield



Description: Completed PVT riser  
Date: 10/28/2013  
Photographer: Dave Canfield







Description: Soil stockpiles from southern PVT  
Date: 10/29/2013  
Photographer: Dave Canfield



Description: Soil stockpile from southern PVT  
Date: 10/29/2013  
Photographer: Dave Canfield



**CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION**  
**Himco Site Trust**  
**Elkhart, Indiana**





Description: Soil stockpile from western PVT  
 Date: 10/29/2013  
 Photographer: Dave Canfield



Description: Waste stockpile removal  
 Date: 11/13/2013  
 Photographer: Dave Canfield





Description: Perimeter fence repair  
Date: 11/13/2013  
Photographer: Dave Canfield





## **Appendix B**

### **Stormwater Pollution Prevention Plan Permit**



**Construction/Stormwater Pollution Prevention Plan  
Technical Review and Comment (Form 1)** *Revised 10/10*

Page 1 of 4

Project Information

**Project Name:** Himco Site  
**Plan Submittal Date:** 09/11/13 **Revisions Submitted:** 09/23/13  
**Muni Jurisdiction:** City of Elkhart **Hydrologic Unit Code (14 Digit):** 04050001220010  
**Project Location Description:** NW corner of CR 10 and John Weaver Parkway  
**Latitude and Longitude:** N 41°42'37" W 8601760'18" **Acreage Disturbed:** 1.5 acres  
**Civil Township:** Cleveland **Quarter:** NE **Section:** 36 **Township:** 38N **Range:** 4E  
**Project Owner Name:** Himco Trust  
**Contact:** Tom Lenz  
**Address:** 430 S. Betger Street  
**City:** Mishawaka **State:** IN **Zip:** 46544  
**Phone:** (574) 257-3688 **FAX:** (269) 344-8558 **E-Mail:** tom.lenz@bayer.com  
**Plan Preparer Name:** Douglas Gatrell  
**Affiliation:** CRA Services  
**Address:** 14496 Sheldon Road, Suite 200  
**City:** Plymouth **State:** MI **Zip:** 48170  
**Phone:** (734) 453-5123 **FAX:** (734) 453-5201 **E-Mail:** dgatrell@craworld.com  
**On-site Erosion Control Supervisor:** S. Weigman (CRA Services)  
**Phone:** (269) 685-5181 **FAX:** (269) 685-5223 **E-Mail:** sweigman@craworld.com

Plan Review

**Review Date:** 9/20/2013 & 9-27  
**Expiration Date:** 12/31/14 **Renewal Date:** 01/31/15  
**Principal Plan Reviewer:** Jason Kauffman, Urban Conservationist  
**Agency:** Elkhart County Soil and Water Conservation District  
**Address:** 17746-B CR 34 **City:** Goshen **State:** Indiana **Zip:** 46528  
**Phone:** (574) 533-4383 x3 **FAX:** 855-408-4690 **E-Mail:** jason.kauffman@in.nacdnet.net  
**Assisted by:** Eric Kurtz, Stormwater Coordinator

- ☒ **PLAN IS ADEQUATE:** A comprehensive plan review has been completed and it has been determined that the plan satisfies the minimum requirements and intent of 327 IAC 15-5.
- ☒ Please refer to additional information included on the following page(s).
- ☒ **Submit Notice of Intent (NOI):** *Attach a copy of this cover page when submitting the NOI to the Indiana Department of Environmental Management. Construction activities may begin 48 hours following the submittal of the NOI. A copy of the NOI must also be sent to the Reviewing Authority (SWCD).*
- ☐ A preliminary plan review has been completed; a comprehensive review will not be completed within the 28-day review period. The reviewing authority reserves the right to perform a comprehensive review at a later date and revisions to the plan may be required at that time to address deficiencies.
- ☐ Please refer to additional information included on the following page(s).
- ☐ **Submit Notice of Intent (NOI):** *Attach a copy of this cover page when submitting the NOI to the Indiana Department of Environmental Management. Construction activities may begin 48 hours following the submittal of the NOI. A copy of the NOI must also be sent to the Reviewing Authority (SWCD).*
- ☐ **PLAN IS DEFICIENT:** Significant deficiencies were identified during the plan review.
- ☐ Please refer to additional information included on the following page(s).
- ☐ **DO NOT** file a Notice of Intent for this project.
- ☐ **DO NOT** commence land disturbing activities until all deficiencies are adequately addressed, the plan re-submitted, and notification has been received that the minimum requirements have been satisfied.
- ☐ **Plan Revisions** ☐ **Deficient Items** should be mailed or delivered to the Principal Plan Reviewer identified in the Plan Review Section above.

# **Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)**

**Project Name:** Himco Site

**Date Reviewed:** 9/20/2013 & 9-27

Page 2 of 4

*The technical review and comments are intended to evaluate the completeness of the Construction/Stormwater Pollution Prevention Plan for the project. The Plan submitted was not reviewed for the adequacy of the engineering design. All measures included in the plan, as well as those recommended in the comments should be evaluated as to their feasibility by a qualified individual with structural measures designed by a qualified engineer. The Plan has not been reviewed for other local, state, or federal permits that may be required to proceed with this project. Additional information, including design calculations may be requested to further evaluate the Plan.*

*All proposed stormwater pollution prevention measures and those referenced in this review must meet the design criteria and standards set forth in the "Indiana Stormwater Quality Manual" from the Indiana Department of Environmental Management or similar Guidance Documents.*

**Please direct questions and/or comments regarding this plan review to:**

Jason Kauffman, Urban Conservationist

**Please refer to the address and contact information identified in the Plan Review Section on page 1.**

## **Assessment of Construction Plan Elements (Section A)**

**The Construction Plan Elements are adequately represented to complete a plan review:**

☒ **Yes**      ☐ **No**

**The items checked below are deficient and require submittal to meet the requirements of the rule.**

| A                           |   | A                           |   |
|-----------------------------|---|-----------------------------|---|
| <input type="checkbox"/> 1  | Index showing locations of required Plan Elements   | <input type="checkbox"/> 2  | 11 by 17 inch plat showing building lot numbers/boundaries and road layout/names                  |
| <input type="checkbox"/> 3  | Narrative describing the nature and purpose of the project  | <input type="checkbox"/> 4  | Vicinity map showing project location   |
| <input type="checkbox"/> 5  | Legal Description of the Project Site (Include Latitude and Longitude - NOI Requirement)          | <input type="checkbox"/> 6  | Location of all lots and proposed site improvements (roads, utilities, structures, etc.)          |
| <input type="checkbox"/> 7  | Hydrologic unit code (14 Digit)   | <input type="checkbox"/> 8  | Notation of any State or Federal water quality permits  |
| <input type="checkbox"/> 9  | Specific points where stormwater discharge will leave the site                                    | <input type="checkbox"/> 10 | Location and name of all wetlands, lakes and water courses on and adjacent to the site            |
| <input type="checkbox"/> 11 | Identification of all receiving waters  | <input type="checkbox"/> 12 | Identification of potential discharges to ground water (abandoned wells, sinkholes, etc.)         |
| <input type="checkbox"/> 13 | 100 year floodplains, floodways, and floodway fringes   | <input type="checkbox"/> 14 | Pre-construction and post construction estimate of Peak Discharge (10 Year storm event)           |
| <input type="checkbox"/> 15 | Adjacent landuse, including upstream watershed  | <input type="checkbox"/> 16 | Locations and approximate boundaries of all disturbed areas (Construction Limits)                 |
| <input type="checkbox"/> 17 | Identification of existing vegetative cover   | <input type="checkbox"/> 18 | Soils map including soil descriptions and limitations   |
| <input type="checkbox"/> 19 | Locations, size, and dimensions of proposed stormwater systems (e.g. pipes, swales, and channels) | <input type="checkbox"/> 20 | Plans for any off-site construction activities associated with this project (sewer/water tie-ins) |
| <input type="checkbox"/> 21 | Locations of proposed soil stockpiles and/or borrow/disposal areas                                | <input type="checkbox"/> 22 | Existing site topography at an interval appropriate to indicate drainage patterns                 |
| <input type="checkbox"/> 23 | Proposed final topography at an interval appropriate to indicate drainage patterns                |                             |   |

# Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)

Project Name: Himco Site

Date Reviewed: 9/20/2013 & 9-27

Page 3 of 4

## Assessment of Stormwater Pollution Prevention Plan (Sections B & C)

### Stormwater Pollution Prevention Plan - Construction Component (Section B)

| Adequate                            | Deficient                | Not Applicable                      |    |  |
|-------------------------------------|--------------------------|-------------------------------------|----|--|
|                                     |                          |                                     | B  | The construction component of the Stormwater Pollution Prevention Plan includes stormwater quality measures to address erosion sedimentation, and other pollutants associated with land disturbance and construction activities. Proper implementation of the plan and inspections of the construction site are necessary to minimize the discharge of pollutants. The Project Site Owner should be aware that unforeseen construction activities and weather conditions may affect the performance of a practice or the effectiveness of the plan. The plan must be a flexible document with provisions to modify or substitute practices as necessary. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 1  | Description of potential pollutant sources associated with construction activities   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 2  | Sequence describing stormwater quality measure implementation relative to land disturbing activities   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 3  | Stable construction entrance locations and specifications (at all points of ingress and egress)  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 4  | Sediment control measures for sheet flow areas   |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5  | Sediment control measures for concentrated flow areas  |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6  | Storm sewer inlet protection measure locations and specifications  |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7  | Runoff control measures (e.g. diversions, rock check dams, slope drains, etc.)   |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8  | Stormwater outlet protection specifications  |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9  | Grade stabilization structure locations and specifications   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 10 | Location, dimensions, specifications, and construction details of each stormwater quality measure  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 11 | Temporary surface stabilization methods appropriate for each season (include sequencing)   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 12 | Permanent surface stabilization specifications (include sequencing)  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 13 | Material handling and spill prevention plan  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 14 | Monitoring and maintenance guidelines for each proposed stormwater quality measure   |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15 | Erosion and sediment control specifications for individual building lots   |

### Stormwater Pollution Prevention Plan - Post-Construction Component (Section C)

Municipal Jurisdiction: ☒ City of Elkhart ☐ City of Goshen ☐ Elkhart County

Each partner/entity of The Greater Elkhart County Stormwater Partnership (Partnership) has specific requirements for a Post-Construction Plan. Each entity will review and approve the Post-Construction Plan for a SWPPP prior to the Elkhart County SWCD approving a project's SWPPP. The post-construction component of the SWPPP includes the implementation of stormwater quality measures to address pollutants that will be associated with the final landuse. Post-construction stormwater quality measures should be functional upon completion of the project. Long term functionality of the measures are critical to their performance and should be monitored and maintained according to the requirements of local, state, and national ordinances, regulations, and laws.

- ☒ The SWCD has received notice that the Post-Construction Plan has been approved by the appropriate Partnership entity. Notification Received: September 23, 2013
- ☐ The SWCD has not received notice that the Post-Construction Plan has been approved by the appropriate Partnership entity.

**Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment**

**Project Name:** Himco Site

**Date Reviewed:** 9/20/2013 & 9-27

Page 4 of 4

Please remember to submit a renewal application if construction continues past Dec. 31, 2014.

Remember that Rule 5 requires self-inspection after every half-inch rain event and at least weekly.

A Notice of Termination (NOT) must be submitted and approved by the Elkhart County SWCD when construction is completed. There is an early termination option if there is less than 5 acres total unfinished, and less than 1 acre contiguous.

## **Appendix C**

### **QA/QC Documents for Imported Material**

PREPARED BY:



**CONESTOGA-ROVERS  
& ASSOCIATES**

200 W. Allegan Street, Suite 300  
Plainwell, Michigan 49080  
Telephone: (269) 685-5181 Fax: (269) 685-5223  
www.CRAworld.com

**SUBMITTAL**

DATE: 10-15-13

SUBMITTAL NO.: 82098-40

PROJECT NO.: 82098

PROJECT NAME: Himco PVT 2013

CLIENT: Bayer HealthCare LLC

ENGINEER: Conestoga-Rovers & Associates

6 West Belt Plaza

651 Colby Drive

Wayne, New Jersey 07470

Waterloo, ON N2V 1C2

SUPPLIER: Klink Companies

SUBCONTRACTOR:

Elkhart County Sand and Gravel

19242 US 6 East

New Paris, IN

MANUFACTURER:

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED        |
|-----|-------------------|----------|---|
| 1   | 2060 Aggregate    | N/A      | Progress Submittals- Ventilation Trench |
|     |                   |          |   |

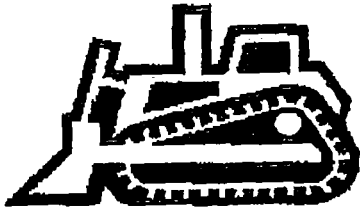
CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:

COPY TO: Tom Lenz (Bayer)  
Doug Gatrell (CRA)  
Nicole Shanks (CRA)

COMPLETED BY: Don Osterhout

[Please Print]

SIGNED:



# ELKHART COUNTY GRAVEL

## INCORPORATED

### 8 GRAVEL GRADATION

|             |           |           |          |
|-------------|-----------|-----------|----------|
| PLANT NAME  | MIDD 2    | SOURCE #  | 2700     |
| TEST DATE   | 10/4/2013 | TEST TYPE | PROD     |
| TEST WEIGHT | 6906.7    | TEST #    | 100413M2 |

### SIEVE SIZE

| English | Metric  |          | WT Retained | WT Passing | % Passing | % Required |
|---------|---------|----------|-------------|------------|-----------|------------|
| 1 1/2"  | 37.5 mm |          | 0           | 6906.7     | 100       | 100        |
| 1"      | 25 mm   |          | 0           | 6906.7     | 100.0     | 100        |
| 3/4"    | 19 mm   |          | 692.4       | 6214.3     | 90.0      | 75-95      |
| 1/2"    | 12.5 mm |          | 3009.2      | 3205.1     | 46.4      | 40-70      |
| 3/8"    | 9.5 mm  |          | 916.6       | 2288.5     | 33.1      | 20-50      |
| # 4     | 4.75 mm |          | 1987.5      | 301        | 4.4       | 0-15       |
| # 8     | 2.36 mm |          | 245         | 56         | 0.8       | 0-10       |
| # 16    | 1.18 mm |          |             |            |           |            |
| # 30    | 600 um  |          |             |            |           |            |
| # 50    | 300 um  |          |             |            |           |            |
| # 100   | 150 um  |          |             |            |           |            |
| # 200   | 75 um   |          |             |            |           |            |
| PAN     | PAN     |          |             |            |           |            |
|         |         | Original | Final       | WT LOSS    | % LOSS    |            |
|         |         | 6906.7   | 6850.7      | 56         | 0.8       | 0-1.5      |

PASS

FAIL

Certified By:

*Ry Beer*

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

### Conestoga-Rovers & Associates

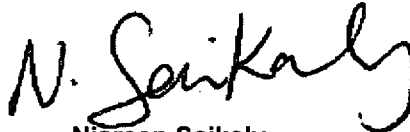
14496 Sheldon Road  
Suite 200  
Plymouth, MI 48170  
Attention: Paul Wiseman

Project Name: **HIMCO**

Project Number: **056916-36**

Lot Number: **OI24004**

Date Completed: **09/28/2013**



**Nisreen Saikaly**  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • •



# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

## **Case Narrative** **Conestoga-Rovers & Associates** **Lot Number: OI24004**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Sample Summary Conestoga-Rovers & Associates Lot Number: OI24004

| Sample Number | Sample ID        | Matrix | Date Sampled    | Date Received |
|---------------|------------------|--------|-----------------|---------------|
| 001           | SO-092313-EB-001 | Solid  | 09/23/2013 1615 | 09/24/2013    |
| 002           | SO-092313-EB-002 | Solid  | 09/23/2013 1620 | 09/24/2013    |

(2 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Conestoga-Rovers & Associates Lot Number: OI24004

| Sample | Sample ID        | Matrix | Parameter            | Method | Result | Q | Units | Page |
|--------|------------------|--------|----------------------|--------|--------|---|-------|------|
| 001    | SO-092313-EB-001 | Solid  | Benzo(b)fluoranthene | 8270D  | 380    |   | ug/kg | 8    |
| 001    | SO-092313-EB-001 | Solid  | alpha-Chlordane      | 8081B  | 17     |   | ug/kg | 12   |
| 001    | SO-092313-EB-001 | Solid  | gamma-Chlordane      | 8081B  | 17     | P | ug/kg | 12   |
| 001    | SO-092313-EB-001 | Solid  | Aluminum             | 6010C  | 6000   |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Arsenic              | 6010C  | 3.9    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Barium               | 6010C  | 44     |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Calcium              | 6010C  | 6900   |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Chromium             | 6010C  | 8.3    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Cobalt               | 6010C  | 3.4    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Copper               | 6010C  | 12     |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Iron                 | 6010C  | 10000  |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Lead                 | 6010C  | 23     |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Magnesium            | 6010C  | 2900   |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Manganese            | 6010C  | 320    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Nickel               | 6010C  | 7.6    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Potassium            | 6010C  | 500    |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Vanadium             | 6010C  | 18     |   | mg/kg | 13   |
| 001    | SO-092313-EB-001 | Solid  | Zinc                 | 6010C  | 49     |   | mg/kg | 13   |
| 002    | SO-092313-EB-002 | Solid  | Aluminum             | 6010C  | 530    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Arsenic              | 6010C  | 4.8    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Barium               | 6010C  | 5.0    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Calcium              | 6010C  | 250000 |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Chromium             | 6010C  | 3.7    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Copper               | 6010C  | 6.9    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Iron                 | 6010C  | 8500   |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Magnesium            | 6010C  | 160000 |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Manganese            | 6010C  | 280    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Nickel               | 6010C  | 2.7    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Potassium            | 6010C  | 250    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Vanadium             | 6010C  | 6.9    |   | mg/kg | 22   |
| 002    | SO-092313-EB-002 | Solid  | Zinc                 | 6010C  | 13     |   | mg/kg | 22   |

(31 detections)

# Inorganic non-metals

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-001**

Description: **SO-092313-EB-001**

Matrix: **Solid**

Date Sampled: **09/23/2013 1615**

% Solids: **91.6 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method    | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|----------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 9012B       | (Cyanide - To) 9012B | 1        | 09/27/2013 1235 | KMB     | 09/26/2013 0931 | 30174 |

| Parameter       | CAS Number | Analytical Method | Result | Q | PQL  | Units | Run |
|-----------------|------------|-------------------|--------|---|------|-------|-----|
| Cyanide - Total | 57-12-5    | 9012B             | ND     |   | 0.55 | mg/kg | 1   |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)

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Level 1 Report v2.1

# Volatile Organic Compounds by GC/MS

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-001</b>     |  |  |  |
| Description: <b>SO-092313-EB-001</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1615</b>             |  |  |  | % Solids: <b>91.6 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch | Sample Wt.(g) |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|---------------|
| 1   | 5035        | 8260B             | 1        | 09/24/2013 1311 | AAC     |           | 30082 | 3.87          |

| Parameter                             | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Acetone                               | 67-64-1    | 8260B             | ND     |   | 28  | ug/kg | 1   |
| Benzene                               | 71-43-2    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Bromodichloromethane                  | 75-27-4    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Bromoform                             | 75-25-2    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Bromomethane (Methyl bromide)         | 74-83-9    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 2-Butanone (MEK)                      | 78-93-3    | 8260B             | ND     |   | 14  | ug/kg | 1   |
| Carbon disulfide                      | 75-15-0    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Carbon tetrachloride                  | 56-23-5    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Chlorobenzene                         | 108-90-7   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Chloroethane                          | 75-00-3    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Chloroform                            | 67-66-3    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Chloromethane (Methyl chloride)       | 74-87-3    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Cyclohexane                           | 110-82-7   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2-Dibromo-3-chloropropane (DBCP)    | 96-12-8    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Dibromochloromethane                  | 124-48-1   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2-Dibromoethane (EDB)               | 106-93-4   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2-Dichlorobenzene                   | 95-50-1    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,3-Dichlorobenzene                   | 541-73-1   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,4-Dichlorobenzene                   | 106-46-7   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Dichlorodifluoromethane               | 75-71-8    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1-Dichloroethane                    | 75-34-3    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2-Dichloroethane                    | 107-06-2   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1-Dichloroethene                    | 75-35-4    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| cis-1,2-Dichloroethene                | 156-59-2   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| trans-1,2-Dichloroethene              | 156-60-5   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2-Dichloropropane                   | 78-87-5    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| cis-1,3-Dichloropropene               | 10061-01-5 | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| trans-1,3-Dichloropropene             | 10061-02-6 | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Ethylbenzene                          | 100-41-4   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 2-Hexanone                            | 591-78-6   | 8260B             | ND     |   | 14  | ug/kg | 1   |
| Isopropylbenzene                      | 98-82-8    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Methyl acetate                        | 79-20-9    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Methyl tertiary butyl ether (MTBE)    | 1634-04-4  | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 4-Methyl-2-pentanone                  | 108-10-1   | 8260B             | ND     |   | 14  | ug/kg | 1   |
| Methylcyclohexane                     | 108-87-2   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Methylene chloride                    | 75-09-2    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Styrene                               | 100-42-5   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1,2,2-Tetrachloroethane             | 79-34-5    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Tetrachloroethene                     | 127-18-4   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Toluene                               | 108-88-3   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,2,4-Trichlorobenzene                | 120-82-1   | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1,1-Trichloroethane                 | 71-55-6    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| 1,1,2-Trichloroethane                 | 79-00-5    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Volatile Organic Compounds by GC/MS

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-001</b>     |  |  |  |
| Description: <b>SO-092313-EB-001</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1615</b>             |  |  |  | % Solids: <b>91.6 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch | Sample Wt.(g) |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|---------------|
| 1   | 5035        | 8260B             | 1        | 09/24/2013 1311 | AAC     |           | 30082 | 3.87          |

| Parameter              | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Trichloroethene        | 79-01-6    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Trichlorofluoromethane | 75-69-4    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Vinyl chloride         | 75-01-4    | 8260B             | ND     |   | 7.1 | ug/kg | 1   |
| Xylenes (total)        | 1330-20-7  | 8260B             | ND     |   | 7.1 | ug/kg | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 113              | 53-142            |
| Bromofluorobenzene    |   | 80               | 47-138            |
| Toluene-d8            |   | 100              | 68-124            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## Semivolatile Organic Compounds by GC/MS

Client: Conestoga-Rovers &amp; Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8270D             | 1        | 09/25/2013 1658 | RBH     | 09/24/2013 1816 | 30120 |

| Parameter                   | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|-----------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Acenaphthene                | 83-32-9    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Acenaphthylene              | 208-96-8   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Acetophenone                | 98-86-2    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Anthracene                  | 120-12-7   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Atrazine                    | 1912-24-9  | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Benzaldehyde                | 100-52-7   | 8270D             | ND     |   | 890 | ug/kg | 1   |
| Benzo(a)anthracene          | 56-55-3    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Benzo(a)pyrene              | 50-32-8    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Benzo(b)fluoranthene        | 205-99-2   | 8270D             | 380    |   | 360 | ug/kg | 1   |
| Benzo(g,h,i)perylene        | 191-24-2   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Benzo(k)fluoranthene        | 207-08-9   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 1,1'-Biphenyl               | 92-52-4    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Bromophenyl phenyl ether  | 101-55-3   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Butyl benzyl phthalate      | 85-68-7    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Caprolactam                 | 105-60-2   | 8270D             | ND     |   | 890 | ug/kg | 1   |
| Carbazole                   | 86-74-8    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Chloro-3-methyl phenol    | 59-50-7    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Chloroaniline             | 106-47-8   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| bis(2-Chloroethoxy)methane  | 111-91-1   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| bis(2-Chloroethyl)ether     | 111-44-4   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| bis(2-Chloroisopropyl)ether | 108-60-1   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Chloronaphthalene         | 91-58-7    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Chlorophenol              | 95-57-8    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Chlorophenyl phenyl ether | 7005-72-3  | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Chrysene                    | 218-01-9   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Di-n-butyl phthalate        | 84-74-2    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Di-n-octylphthalate         | 117-84-0   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Dibenzo(a,h)anthracene      | 53-70-3    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Dibenzofuran                | 132-64-9   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 3,3'-Dichlorobenzidine      | 91-94-1    | 8270D             | ND     |   | 890 | ug/kg | 1   |
| 2,4-Dichlorophenol          | 120-83-2   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Diethylphthalate            | 84-66-2    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Dimethyl phthalate          | 131-11-3   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2,4-Dimethylphenol          | 105-67-9   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4,6-Dinitro-2-methylphenol  | 534-52-1   | 8270D             | ND     |   | 890 | ug/kg | 1   |
| 2,4-Dinitrophenol           | 51-28-5    | 8270D             | ND     |   | 890 | ug/kg | 1   |
| 2,4-Dinitrotoluene          | 121-14-2   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2,6-Dinitrotoluene          | 606-20-2   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| bis(2-Ethylhexyl)phthalate  | 117-81-7   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Fluoranthene                | 206-44-0   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Fluorene                    | 86-73-7    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Hexachlorobenzene           | 118-74-1   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Hexachlorobutadiene         | 87-68-3    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Hexachlorocyclopentadiene   | 77-47-4    | 8270D             | ND     |   | 890 | ug/kg | 1   |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Semivolatile Organic Compounds by GC/MS

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-001**

Description: **SO-092313-EB-001**

Matrix: **Solid**

Date Sampled: **09/23/2013 1615**

% Solids: **91.6 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8270D             | 1        | 09/25/2013 1658 | RBH     | 09/24/2013 1816 | 30120 |

| Parameter                              | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|--|------------|-------------------|--------|---|-----|-------|-----|
| Hexachloroethane                       | 67-72-1    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Indeno(1,2,3-c,d)pyrene                | 193-39-5   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Isophorone                             | 78-59-1    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Methylnaphthalene                    | 91-57-6    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Methylphenol                         | 95-48-7    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 3 & 4-Methylphenol                     | 106-44-5   | 8270D             | ND     |   | 720 | ug/kg | 1   |
| N-Nitrosodi-n-propylamine              | 621-64-7   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| N-Nitrosodiphenylamine (Diphenylamine) | 86-30-6    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Naphthalene                            | 91-20-3    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Nitroaniline                         | 88-74-4    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 3-Nitroaniline                         | 99-09-2    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Nitroaniline                         | 100-01-6   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Nitrobenzene                           | 98-95-3    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2-Nitrophenol                          | 88-75-5    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 4-Nitrophenol                          | 100-02-7   | 8270D             | ND     |   | 890 | ug/kg | 1   |
| Pentachlorophenol                      | 87-86-5    | 8270D             | ND     |   | 890 | ug/kg | 1   |
| Phenanthrene                           | 85-01-8    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Phenol                                 | 108-95-2   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| Pyrene                                 | 129-00-0   | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2,4,5-Trichlorophenol                  | 95-95-4    | 8270D             | ND     |   | 360 | ug/kg | 1   |
| 2,4,6-Trichlorophenol                  | 88-06-2    | 8270D             | ND     |   | 360 | ug/kg | 1   |

| Surrogate            | Q | Run 1 % Recovery | Acceptance Limits |
|----------------------|---|------------------|-------------------|
| 2,4,6-Tribromophenol |   | 107              | 30-117            |
| 2-Fluorobiphenyl     |   | 86               | 33-102            |
| 2-Fluorophenol       |   | 73               | 28-104            |
| Nitrobenzene-d5      |   | 65               | 22-109            |
| Phenol-d5            |   | 76               | 27-103            |
| Terphenyl-d14        |   | 95               | 41-120            |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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Level 1 Report v2.1



# Herbicides by GC

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-001</b>     |  |  |  |
| Description: <b>SO-092313-EB-001</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1615</b>             |  |  |  | % Solids: <b>91.6 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8151A       | 8151A             | 1        | 09/26/2013 2002 | AMY     | 09/24/2013 0854 | 30128 |

| Parameter         | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|-------------------|------------|-------------------|--------|---|-----|-------|-----|
| 2,4-D             | 94-75-7    | 8151A             | ND     |   | 44  | ug/kg | 1   |
| 2,4,5-T           | 93-76-5    | 8151A             | ND     |   | 11  | ug/kg | 1   |
| 2,4,5-TP (Silvex) | 93-72-1    | 8151A             | ND     |   | 11  | ug/kg | 1   |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------|---|------------------|-------------------|
| DCAA      |   | 77               | 44-114            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# PCBs by GC

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-001</b>     |  |  |  |
| Description: <b>SO-092313-EB-001</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1615</b>             |  |  |  | % Solids: <b>91.6 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8082A             | 1        | 09/27/2013 1851 | AMY     | 09/25/2013 1026 | 30162 |

| Parameter    | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|--------------|------------|-------------------|--------|---|-----|-------|-----|
| Aroclor 1016 | 12674-11-2 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1221 | 11104-28-2 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1232 | 11141-16-5 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1242 | 53469-21-9 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1248 | 12672-29-6 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1254 | 11097-69-1 | 8082A             | ND     |   | 18  | ug/kg | 1   |
| Aroclor 1260 | 11096-82-5 | 8082A             | ND     |   | 18  | ug/kg | 1   |

| Surrogate            | Q | Run 1 % Recovery | Acceptance Limits |
|----------------------|---|------------------|-------------------|
| Decachlorobiphenyl   |   | 92               | 41-132            |
| Tetrachloro-m-xylene |   | 95               | 35-106            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Organochlorine Pesticides by GC

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  | Laboratory ID: <b>OI24004-001</b>     |  |
| Description: <b>SO-092313-EB-001</b>             |  | Matrix: <b>Solid</b>                  |  |
| Date Sampled: <b>09/23/2013 1615</b>             |  | % Solids: <b>91.6 09/24/2013 2025</b> |  |
| Date Received: <b>09/24/2013</b>                 |  |                                       |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8081B             | 5        | 09/26/2013 1414 | PMS     | 09/25/2013 1026 | 30163 |

| Parameter           | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|---------------------|------------|-------------------|--------|---|-----|-------|-----|
| Aldrin              | 309-00-2   | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| alpha-BHC           | 319-84-6   | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| beta-BHC            | 319-85-7   | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| delta-BHC           | 319-86-8   | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| gamma-BHC (Lindane) | 58-89-9    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| alpha-Chlordane     | 5103-71-9  | 8081B             | 17     |   | 9.1 | ug/kg | 1   |
| gamma-Chlordane     | 5103-74-2  | 8081B             | 17     | P | 9.1 | ug/kg | 1   |
| 4,4'-DDD            | 72-54-8    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| 4,4'-DDE            | 72-55-9    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| 4,4'-DDT            | 50-29-3    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Dieldrin            | 60-57-1    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endosulfan I        | 959-98-8   | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endosulfan II       | 33213-65-9 | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endosulfan sulfate  | 1031-07-8  | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endrin              | 72-20-8    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endrin aldehyde     | 7421-93-4  | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Endrin ketone       | 53494-70-5 | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Heptachlor          | 76-44-8    | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Heptachlor epoxide  | 1024-57-3  | 8081B             | ND     |   | 9.1 | ug/kg | 1   |
| Methoxychlor        | 72-43-5    | 8081B             | ND     |   | 36  | ug/kg | 1   |
| Toxaphene           | 8001-35-2  | 8081B             | ND     |   | 440 | ug/kg | 1   |

| Surrogate            | Q | Run 1 % Recovery | Acceptance Limits |
|----------------------|---|------------------|-------------------|
| Decachlorobiphenyl   |   | 83               | 57-110            |
| Tetrachloro-m-xylene |   | 86               | 37-91             |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# TAL Metals

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-001**

Description: **SO-092313-EB-001**

Matrix: **Solid**

Date Sampled: **09/23/2013 1615**

% Solids: **91.6 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 7471B       | 7471B             | 1        | 09/26/2013 1219 | COH     | 09/26/2013 1044 | 30274 |
| 1   | 3050B       | 6010C             | 1        | 09/24/2013 2228 | CDF     | 09/24/2013 1027 | 30044 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL   | Units | Run |
|-----------|------------|-------------------|--------|---|-------|-------|-----|
| Aluminum  | 7429-90-5  | 6010C             | 6000   |   | 10    | mg/kg | 1   |
| Antimony  | 7440-36-0  | 6010C             | ND     |   | 0.51  | mg/kg | 1   |
| Arsenic   | 7440-38-2  | 6010C             | 3.9    |   | 0.51  | mg/kg | 1   |
| Barium    | 7440-39-3  | 6010C             | 44     |   | 1.3   | mg/kg | 1   |
| Beryllium | 7440-41-7  | 6010C             | ND     |   | 0.20  | mg/kg | 1   |
| Cadmium   | 7440-43-9  | 6010C             | ND     |   | 0.10  | mg/kg | 1   |
| Calcium   | 7440-70-2  | 6010C             | 6900   |   | 250   | mg/kg | 1   |
| Chromium  | 7440-47-3  | 6010C             | 8.3    |   | 0.25  | mg/kg | 1   |
| Cobalt    | 7440-48-4  | 6010C             | 3.4    |   | 1.3   | mg/kg | 1   |
| Copper    | 7440-50-8  | 6010C             | 12     |   | 0.25  | mg/kg | 1   |
| Iron      | 7439-89-6  | 6010C             | 10000  |   | 5.1   | mg/kg | 1   |
| Lead      | 7439-92-1  | 6010C             | 23     |   | 0.51  | mg/kg | 1   |
| Magnesium | 7439-95-4  | 6010C             | 2900   |   | 250   | mg/kg | 1   |
| Manganese | 7439-96-5  | 6010C             | 320    |   | 0.76  | mg/kg | 1   |
| Mercury   | 7439-97-6  | 7471B             | ND     |   | 0.078 | mg/kg | 1   |
| Nickel    | 7440-02-0  | 6010C             | 7.6    |   | 2.0   | mg/kg | 1   |
| Potassium | 7440-09-7  | 6010C             | 500    |   | 250   | mg/kg | 1   |
| Selenium  | 7782-49-2  | 6010C             | ND     |   | 0.51  | mg/kg | 1   |
| Silver    | 7440-22-4  | 6010C             | ND     |   | 0.25  | mg/kg | 1   |
| Sodium    | 7440-23-5  | 6010C             | ND     |   | 250   | mg/kg | 1   |
| Thallium  | 7440-28-0  | 6010C             | ND     |   | 2.5   | mg/kg | 1   |
| Vanadium  | 7440-62-2  | 6010C             | 18     |   | 2.5   | mg/kg | 1   |
| Zinc      | 7440-66-6  | 6010C             | 49     |   | 2.5   | mg/kg | 1   |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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# Inorganic non-metals

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-002**

Description: **SO-092313-EB-002**

Matrix: **Solid**

Date Sampled: **09/23/2013 1620**

% Solids: **97.5 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method    | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|----------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 9012B       | (Cyanide - To) 9012B | 1        | 09/27/2013 1237 | KMB     | 09/26/2013 0931 | 30174 |

| Parameter       | CAS Number | Analytical Method | Result | Q | PQL  | Units | Run |
|-----------------|------------|-------------------|--------|---|------|-------|-----|
| Cyanide - Total | 57-12-5    | 9012B             | ND     |   | 0.51 | mg/kg | 1   |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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# Volatile Organic Compounds by GC/MS

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-002**

Description: **SO-092313-EB-002**

Matrix: **Solid**

Date Sampled: **09/23/2013 1620**

% Solids: **97.5 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch | Sample Wt.(g) |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|---------------|
| 1   | 5035        | 8260B             | 1        | 09/24/2013 1358 | AAC     |           | 30082 | 5.01          |

| Parameter                             | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Acetone                               | 67-64-1    | 8260B             | ND     |   | 20  | ug/kg | 1   |
| Benzene                               | 71-43-2    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Bromodichloromethane                  | 75-27-4    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Bromoform                             | 75-25-2    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Bromomethane (Methyl bromide)         | 74-83-9    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 2-Butanone (MEK)                      | 78-93-3    | 8260B             | ND     |   | 10  | ug/kg | 1   |
| Carbon disulfide                      | 75-15-0    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Carbon tetrachloride                  | 56-23-5    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Chlorobenzene                         | 108-90-7   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Chloroethane                          | 75-00-3    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Chloroform                            | 67-66-3    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Chloromethane (Methyl chloride)       | 74-87-3    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Cyclohexane                           | 110-82-7   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2-Dibromo-3-chloropropane (DBCP)    | 96-12-8    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Dibromochloromethane                  | 124-48-1   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2-Dibromoethane (EDB)               | 106-93-4   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2-Dichlorobenzene                   | 95-50-1    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,3-Dichlorobenzene                   | 541-73-1   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,4-Dichlorobenzene                   | 106-46-7   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Dichlorodifluoromethane               | 75-71-8    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1-Dichloroethane                    | 75-34-3    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2-Dichloroethane                    | 107-06-2   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1-Dichloroethene                    | 75-35-4    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| cis-1,2-Dichloroethene                | 156-59-2   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| trans-1,2-Dichloroethene              | 156-60-5   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2-Dichloropropane                   | 78-87-5    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| cis-1,3-Dichloropropene               | 10061-01-5 | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| trans-1,3-Dichloropropene             | 10061-02-6 | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Ethylbenzene                          | 100-41-4   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 2-Hexanone                            | 591-78-6   | 8260B             | ND     |   | 10  | ug/kg | 1   |
| Isopropylbenzene                      | 98-82-8    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Methyl acetate                        | 79-20-9    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Methyl tertiary butyl ether (MTBE)    | 1634-04-4  | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 4-Methyl-2-pentanone                  | 108-10-1   | 8260B             | ND     |   | 10  | ug/kg | 1   |
| Methylcyclohexane                     | 108-87-2   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Methylene chloride                    | 75-09-2    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Styrene                               | 100-42-5   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1,2,2-Tetrachloroethane             | 79-34-5    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Tetrachloroethene                     | 127-18-4   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Toluene                               | 108-88-3   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,2,4-Trichlorobenzene                | 120-82-1   | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1,1-Trichloroethane                 | 71-55-6    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| 1,1,2-Trichloroethane                 | 79-00-5    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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# Volatile Organic Compounds by GC/MS

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-002</b>     |  |  |  |
| Description: <b>SO-092313-EB-002</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  |  |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch | Sample Wt.(g) |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|---------------|
| 1   | 5035        | 8260B             | 1        | 09/24/2013 1358 | AAC     |           | 30082 | 5.01          |

| Parameter              | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Trichloroethene        | 79-01-6    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Trichlorofluoromethane | 75-69-4    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Vinyl chloride         | 75-01-4    | 8260B             | ND     |   | 5.1 | ug/kg | 1   |
| Xylenes (total)        | 1330-20-7  | 8260B             | ND     |   | 5.1 | ug/kg | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 108              | 53-142            |
| Bromofluorobenzene    |   | 98               | 47-138            |
| Toluene-d8            |   | 108              | 68-124            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Semivolatile Organic Compounds by GC/MS

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-002</b>     |  |  |  |
| Description: <b>SO-092313-EB-002</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  |  |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8270D             | 1        | 09/25/2013 1721 | RBH     | 09/24/2013 1816 | 30120 |

| Parameter                   | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|-----------------------------|------------|-------------------|--------|---|-----|-------|-----|
| Acenaphthene                | 83-32-9    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Acenaphthylene              | 208-96-8   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Acetophenone                | 98-86-2    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Anthracene                  | 120-12-7   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Atrazine                    | 1912-24-9  | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Benzaldehyde                | 100-52-7   | 8270D             | ND     |   | 840 | ug/kg | 1   |
| Benzo(a)anthracene          | 56-55-3    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Benzo(a)pyrene              | 50-32-8    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Benzo(b)fluoranthene        | 205-99-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Benzo(g,h,i)perylene        | 191-24-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Benzo(k)fluoranthene        | 207-08-9   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 1,1'-Biphenyl               | 92-52-4    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Bromophenyl phenyl ether  | 101-55-3   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Butyl benzyl phthalate      | 85-68-7    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Caprolactam                 | 105-60-2   | 8270D             | ND     |   | 840 | ug/kg | 1   |
| Carbazole                   | 86-74-8    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Chloro-3-methyl phenol    | 59-50-7    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Chloroaniline             | 106-47-8   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| bis(2-Chloroethoxy)methane  | 111-91-1   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| bis(2-Chloroethyl)ether     | 111-44-4   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| bis(2-Chloroisopropyl)ether | 108-60-1   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Chloronaphthalene         | 91-58-7    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Chlorophenol              | 95-57-8    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Chlorophenyl phenyl ether | 7005-72-3  | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Chrysene                    | 218-01-9   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Di-n-butyl phthalate        | 84-74-2    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Di-n-octylphthalate         | 117-84-0   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Dibenzo(a,h)anthracene      | 53-70-3    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Dibenzofuran                | 132-64-9   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 3,3'-Dichlorobenzidine      | 91-94-1    | 8270D             | ND     |   | 840 | ug/kg | 1   |
| 2,4-Dichlorophenol          | 120-83-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Diethylphthalate            | 84-66-2    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Dimethyl phthalate          | 131-11-3   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2,4-Dimethylphenol          | 105-67-9   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4,6-Dinitro-2-methylphenol  | 534-52-1   | 8270D             | ND     |   | 840 | ug/kg | 1   |
| 2,4-Dinitrophenol           | 51-28-5    | 8270D             | ND     |   | 840 | ug/kg | 1   |
| 2,4-Dinitrotoluene          | 121-14-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2,6-Dinitrotoluene          | 606-20-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| bis(2-Ethylhexyl)phthalate  | 117-81-7   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Fluoranthene                | 206-44-0   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Fluorene                    | 86-73-7    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Hexachlorobenzene           | 118-74-1   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Hexachlorobutadiene         | 87-68-3    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Hexachlorocyclopentadiene   | 77-47-4    | 8270D             | ND     |   | 840 | ug/kg | 1   |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Semivolatile Organic Compounds by GC/MS

|  |  |  |                                       |  |  |
|--|--|--|---------------------------------------|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  | Laboratory ID: <b>0124004-002</b>     |  |  |
| Description: <b>SO-092313-EB-002</b>             |  |  | Matrix: <b>Solid</b>                  |  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |                                       |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8270D             | 1        | 09/25/2013 1721 | RBH     | 09/24/2013 1816 | 30120 |

| Parameter                              | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|--|------------|-------------------|--------|---|-----|-------|-----|
| Hexachloroethane                       | 67-72-1    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Indeno(1,2,3-c,d)pyrene                | 193-39-5   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Isophorone                             | 78-59-1    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Methylnaphthalene                    | 91-57-6    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Methylphenol                         | 95-48-7    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 3 & 4-Methylphenol                     | 106-44-5   | 8270D             | ND     |   | 680 | ug/kg | 1   |
| N-Nitrosodi-n-propylamine              | 621-64-7   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| N-Nitrosodiphenylamine (Diphenylamine) | 86-30-6    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Naphthalene                            | 91-20-3    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Nitroaniline                         | 88-74-4    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 3-Nitroaniline                         | 99-09-2    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Nitroaniline                         | 100-01-6   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Nitrobenzene                           | 98-95-3    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2-Nitrophenol                          | 88-75-5    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 4-Nitrophenol                          | 100-02-7   | 8270D             | ND     |   | 840 | ug/kg | 1   |
| Pentachlorophenol                      | 87-86-5    | 8270D             | ND     |   | 840 | ug/kg | 1   |
| Phenanthrene                           | 85-01-8    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Phenol                                 | 108-95-2   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| Pyrene                                 | 129-00-0   | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2,4,5-Trichlorophenol                  | 95-95-4    | 8270D             | ND     |   | 330 | ug/kg | 1   |
| 2,4,6-Trichlorophenol                  | 88-06-2    | 8270D             | ND     |   | 330 | ug/kg | 1   |

| Surrogate            | Q | Run 1 % Recovery | Acceptance Limits |
|----------------------|---|------------------|-------------------|
| 2,4,6-Tribromophenol |   | 109              | 30-117            |
| 2-Fluorobiphenyl     |   | 77               | 33-102            |
| 2-Fluorophenol       |   | 71               | 28-104            |
| Nitrobenzene-d5      |   | 59               | 22-109            |
| Phenol-d5            |   | 74               | 27-103            |
| Terphenyl-d14        |   | 91               | 41-120            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Herbicides by GC

Client: **Conestoga-Rovers & Associates**

Laboratory ID: **OI24004-002**

Description: **SO-092313-EB-002**

Matrix: **Solid**

Date Sampled: **09/23/2013 1620**

% Solids: **97.5 09/24/2013 2025**

Date Received: **09/24/2013**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8151A       | 8151A             | 1        | 09/26/2013 2025 | AMY     | 09/24/2013 0854 | 30128 |

| Parameter         | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|-------------------|------------|-------------------|--------|---|-----|-------|-----|
| 2,4-D             | 94-75-7    | 8151A             | ND     |   | 41  | ug/kg | 1   |
| 2,4,5-T           | 93-76-5    | 8151A             | ND     |   | 10  | ug/kg | 1   |
| 2,4,5-TP (Silvex) | 93-72-1    | 8151A             | ND     |   | 10  | ug/kg | 1   |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------|---|------------------|-------------------|
| DCAA      |   | 72               | 44-114            |

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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# PCBs by GC

|  |  |  |  |                                       |  |  |  |
|--|--|--|--|---------------------------------------|--|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  |  | Laboratory ID: <b>OI24004-002</b>     |  |  |  |
| Description: <b>SO-092313-EB-002</b>             |  |  |  | Matrix: <b>Solid</b>                  |  |  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  |  |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |  |                                       |  |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8082A             | 1        | 09/27/2013 1905 | AMY     | 09/25/2013 1026 | 30162 |

| Parameter    | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|--------------|------------|-------------------|--------|---|-----|-------|-----|
| Aroclor 1016 | 12674-11-2 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1221 | 11104-28-2 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1232 | 11141-16-5 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1242 | 53469-21-9 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1248 | 12672-29-6 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1254 | 11097-69-1 | 8082A             | ND     |   | 17  | ug/kg | 1   |
| Aroclor 1260 | 11096-82-5 | 8082A             | ND     |   | 17  | ug/kg | 1   |

| Surrogate            | Q | Run 1 % Recovery | Acceptance Limits |
|----------------------|---|------------------|-------------------|
| Decachlorobiphenyl   |   | 88               | 41-132            |
| Tetrachloro-m-xylene |   | 79               | 35-106            |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Organochlorine Pesticides by GC

|  |  |  |                                       |  |  |
|--|--|--|---------------------------------------|--|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  |  | Laboratory ID: <b>OI24004-002</b>     |  |  |
| Description: <b>SO-092313-EB-002</b>             |  |  | Matrix: <b>Solid</b>                  |  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |  |
| Date Received: <b>09/24/2013</b>                 |  |  |                                       |  |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3550C       | 8081B             | 1        | 09/26/2013 1300 | PMS     | 09/25/2013 1026 | 30163 |

| Parameter           | CAS Number | Analytical Method | Result | Q | PQL | Units | Run |
|---------------------|------------|-------------------|--------|---|-----|-------|-----|
| Aldrin              | 309-00-2   | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| alpha-BHC           | 319-84-6   | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| beta-BHC            | 319-85-7   | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| delta-BHC           | 319-86-8   | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| gamma-BHC (Lindane) | 58-89-9    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| alpha-Chlordane     | 5103-71-9  | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| gamma-Chlordane     | 5103-74-2  | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| 4,4'-DDD            | 72-54-8    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| 4,4'-DDE            | 72-55-9    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| 4,4'-DDT            | 50-29-3    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Dieldrin            | 60-57-1    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endosulfan I        | 959-98-8   | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endosulfan II       | 33213-65-9 | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endosulfan sulfate  | 1031-07-8  | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endrin              | 72-20-8    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endrin aldehyde     | 7421-93-4  | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Endrin ketone       | 53494-70-5 | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Heptachlor          | 76-44-8    | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Heptachlor epoxide  | 1024-57-3  | 8081B             | ND     |   | 1.7 | ug/kg | 1   |
| Methoxychlor        | 72-43-5    | 8081B             | ND     |   | 6.8 | ug/kg | 1   |
| Toxaphene           | 8001-35-2  | 8081B             | ND     |   | 84  | ug/kg | 1   |

| Surrogate            | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|----------------------|---|---------------------|----------------------|
| Decachlorobiphenyl   |   | 83                  | 57-110               |
| Tetrachloro-m-xylene |   | 80                  | 37-91                |

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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"



# TAL Metals

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| Client: <b>Conestoga-Rovers &amp; Associates</b> |  | Laboratory ID: <b>OI24004-002</b>     |  |
| Description: <b>SO-092313-EB-002</b>             |  | Matrix: <b>Solid</b>                  |  |
| Date Sampled: <b>09/23/2013 1620</b>             |  | % Solids: <b>97.5 09/24/2013 2025</b> |  |
| Date Received: <b>09/24/2013</b>                 |  |                                       |  |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 7471B       | 7471B             | 1        | 09/26/2013 1221 | COH     | 09/26/2013 1044 | 30274 |
| 1   | 3050B       | 6010C             | 1        | 09/24/2013 2232 | CDF     | 09/24/2013 1027 | 30044 |
| 2   | 3050B       | 6010C             | 10       | 09/25/2013 1405 | CDF     | 09/24/2013 1027 | 30044 |
| 3   | 3050B       | 6010C             | 20       | 09/25/2013 2318 | CDF     | 09/24/2013 1027 | 30044 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL   | Units | Run |
|-----------|------------|-------------------|--------|---|-------|-------|-----|
| Aluminum  | 7429-90-5  | 6010C             | 530    |   | 9.9   | mg/kg | 1   |
| Antimony  | 7440-36-0  | 6010C             | ND     |   | 0.49  | mg/kg | 1   |
| Arsenic   | 7440-38-2  | 6010C             | 4.8    |   | 0.49  | mg/kg | 1   |
| Barium    | 7440-39-3  | 6010C             | 5.0    |   | 1.3   | mg/kg | 1   |
| Beryllium | 7440-41-7  | 6010C             | ND     |   | 0.20  | mg/kg | 1   |
| Cadmium   | 7440-43-9  | 6010C             | ND     |   | 0.099 | mg/kg | 1   |
| Calcium   | 7440-70-2  | 6010C             | 250000 |   | 4900  | mg/kg | 3   |
| Chromium  | 7440-47-3  | 6010C             | 3.7    |   | 0.25  | mg/kg | 1   |
| Cobalt    | 7440-48-4  | 6010C             | ND     |   | 1.3   | mg/kg | 1   |
| Copper    | 7440-50-8  | 6010C             | 6.9    |   | 0.25  | mg/kg | 1   |
| Iron      | 7439-89-6  | 6010C             | 8500   |   | 4.9   | mg/kg | 1   |
| Lead      | 7439-92-1  | 6010C             | ND     |   | 0.49  | mg/kg | 1   |
| Magnesium | 7439-95-4  | 6010C             | 160000 |   | 2500  | mg/kg | 2   |
| Manganese | 7439-96-5  | 6010C             | 280    |   | 0.74  | mg/kg | 1   |
| Mercury   | 7439-97-6  | 7471B             | ND     |   | 0.074 | mg/kg | 1   |
| Nickel    | 7440-02-0  | 6010C             | 2.7    |   | 2.0   | mg/kg | 1   |
| Potassium | 7440-09-7  | 6010C             | 250    |   | 250   | mg/kg | 1   |
| Selenium  | 7782-49-2  | 6010C             | ND     |   | 0.49  | mg/kg | 1   |
| Silver    | 7440-22-4  | 6010C             | ND     |   | 0.25  | mg/kg | 1   |
| Sodium    | 7440-23-5  | 6010C             | ND     |   | 250   | mg/kg | 1   |
| Thallium  | 7440-28-0  | 6010C             | ND     |   | 2.5   | mg/kg | 1   |
| Vanadium  | 7440-62-2  | 6010C             | 6.9    |   | 2.5   | mg/kg | 1   |
| Zinc      | 7440-66-6  | 6010C             | 13     |   | 2.5   | mg/kg | 1   |

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## QC Summary

## Inorganic non-metals - MB

Sample ID: QQ30174-001

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Result | Q | Dil | PQL  | Units | Analysis Date   |
|-----------------|--------|---|-----|------|-------|-----------------|
| Cyanide - Total | ND     |   | 1   | 0.50 | mg/kg | 09/27/2013 1230 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Inorganic non-metals - LCS

Sample ID: OQ30174-002

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Cyanide - Total | 5.0                  | 4.8            |   | 1   | 95    | 90-110      | 09/27/2013 1231 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Inorganic non-metals - LCSD

Sample ID: QQ30174-003

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|-----------------|----------------------|----------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Cyanide - Total | 5.0                  | 5.1            |   | 1   | 101   | 5.9   | 90-110      | 20          | 09/27/2013 1232 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Inorganic non-metals - Duplicate

Sample ID: OI24004-002DU

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Sample Amount (mg/kg) | Result (mg/kg) | Q | Dil | % RPD | % RPD Limit | Analysis Date   |
|-----------------|-----------------------|----------------|---|-----|-------|-------------|-----------------|
| Cyanide - Total | ND                    | ND             |   | 1   | 0.00  | 20          | 09/27/2013 1241 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Inorganic non-metals - MS

Sample ID: OI24004-001MS

Batch: 30174

Matrix: Solid

Prep Method: 9012B

Analytical Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Sample Amount (mg/kg) | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------------|-----------------------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Cyanide - Total | ND                    | 5.5                  | 5.8            |   | 1   | 106   | 70-130      | 09/27/2013 1235 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Inorganic non-metals - MSD

Sample ID: OI24004-001MD

Matrix: Solid

Batch: 30174

Prep Method: 9012B

Analytical Method: 9012B

Prep Date: 09/26/2013 931

| Parameter       | Sample Amount (mg/kg) | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|-----------------|-----------------------|----------------------|----------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Cyanide - Total | ND                    | 5.5                  | 5.4            |   | 1   | 100   | 6.0   | 70-130      | 20          | 09/27/2013 1236 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**



# Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ30082-001

Batch: 30082

Matrix: Solid

Prep Method: 5035

Analytical Method: 8260B

| Parameter                             | Result | Q | Dil | PQL | Units | Analysis Date   |
|---------------------------------------|--------|---|-----|-----|-------|-----------------|
| Acetone                               | ND     |   | 1   | 20  | ug/kg | 09/24/2013 1137 |
| Benzene                               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Bromodichloromethane                  | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Bromoform                             | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Bromomethane (Methyl bromide)         | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 2-Butanone (MEK)                      | ND     |   | 1   | 10  | ug/kg | 09/24/2013 1137 |
| Carbon disulfide                      | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Carbon tetrachloride                  | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Chlorobenzene                         | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Chloroethane                          | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Chloroform                            | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Chloromethane (Methyl chloride)       | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Cyclohexane                           | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2-Dibromo-3-chloropropane (DBCP)    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Dibromochloromethane                  | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2-Dibromoethane (EDB)               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,4-Dichlorobenzene                   | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,3-Dichlorobenzene                   | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2-Dichlorobenzene                   | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Dichlorodifluoromethane               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2-Dichloroethane                    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1-Dichloroethane                    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| trans-1,2-Dichloroethene              | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| cis-1,2-Dichloroethene                | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1-Dichloroethene                    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2-Dichloropropane                   | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| trans-1,3-Dichloropropene             | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| cis-1,3-Dichloropropene               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Ethylbenzene                          | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 2-Hexanone                            | ND     |   | 1   | 10  | ug/kg | 09/24/2013 1137 |
| Isopropylbenzene                      | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Methyl acetate                        | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Methyl tertiary butyl ether (MTBE)    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 4-Methyl-2-pentanone                  | ND     |   | 1   | 10  | ug/kg | 09/24/2013 1137 |
| Methylcyclohexane                     | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Methylene chloride                    | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Styrene                               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1,2,2-Tetrachloroethane             | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Tetrachloroethene                     | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| Toluene                               | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,2,4-Trichlorobenzene                | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1,2-Trichloroethane                 | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |
| 1,1,1-Trichloroethane                 | ND     |   | 1   | 5.0 | ug/kg | 09/24/2013 1137 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ30082-001

Batch: 30082

Matrix: Solid

Prep Method: 5035

Analytical Method: 8260B

| Parameter              | Result | Q     | Dil              | PQL | Units | Analysis Date   |
|------------------------|--------|-------|------------------|-----|-------|-----------------|
| Trichloroethene        | ND     |       | 1                | 5.0 | ug/kg | 09/24/2013 1137 |
| Trichlorofluoromethane | ND     |       | 1                | 5.0 | ug/kg | 09/24/2013 1137 |
| Vinyl chloride         | ND     |       | 1                | 5.0 | ug/kg | 09/24/2013 1137 |
| Xylenes (total)        | ND     |       | 1                | 5.0 | ug/kg | 09/24/2013 1137 |
| Surrogate              | Q      | % Rec | Acceptance Limit |     |       |                 |
| Bromofluorobenzene     |        | 95    | 47-138           |     |       |                 |
| 1,2-Dichloroethane-d4  |        | 111   | 53-142           |     |       |                 |
| Toluene-d8             |        | 112   | 68-124           |     |       |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30082-002

Batch: 30082

Matrix: Solid

Prep Method: 5035

Analytical Method: 8260B

| Parameter                             | Spike Amount (ug/kg) | Result (ug/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------------------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Acetone                               | 100                  | 100            |   | 1   | 104   | 60-140      | 09/24/2013 1002 |
| Benzene                               | 50                   | 49             |   | 1   | 98    | 69-123      | 09/24/2013 1002 |
| Bromodichloromethane                  | 50                   | 47             |   | 1   | 94    | 69-121      | 09/24/2013 1002 |
| Bromoform                             | 50                   | 44             |   | 1   | 88    | 61-119      | 09/24/2013 1002 |
| Bromomethane (Methyl bromide)         | 50                   | 46             |   | 1   | 93    | 10-168      | 09/24/2013 1002 |
| 2-Butanone (MEK)                      | 100                  | 110            |   | 1   | 114   | 57-148      | 09/24/2013 1002 |
| Carbon disulfide                      | 50                   | 50             |   | 1   | 100   | 58-122      | 09/24/2013 1002 |
| Carbon tetrachloride                  | 50                   | 49             |   | 1   | 97    | 58-136      | 09/24/2013 1002 |
| Chlorobenzene                         | 50                   | 43             |   | 1   | 86    | 59-129      | 09/24/2013 1002 |
| Chloroethane                          | 50                   | 46             |   | 1   | 92    | 42-163      | 09/24/2013 1002 |
| Chloroform                            | 50                   | 47             |   | 1   | 94    | 71-125      | 09/24/2013 1002 |
| Chloromethane (Methyl chloride)       | 50                   | 44             |   | 1   | 89    | 34-134      | 09/24/2013 1002 |
| Cyclohexane                           | 50                   | 50             |   | 1   | 99    | 53-139      | 09/24/2013 1002 |
| 1,2-Dibromo-3-chloropropane (DBCP)    | 50                   | 46             |   | 1   | 92    | 55-125      | 09/24/2013 1002 |
| Dibromochloromethane                  | 50                   | 42             |   | 1   | 85    | 66-119      | 09/24/2013 1002 |
| 1,2-Dibromoethane (EDB)               | 50                   | 45             |   | 1   | 89    | 74-124      | 09/24/2013 1002 |
| 1,4-Dichlorobenzene                   | 50                   | 44             |   | 1   | 88    | 52-133      | 09/24/2013 1002 |
| 1,3-Dichlorobenzene                   | 50                   | 43             |   | 1   | 86    | 51-134      | 09/24/2013 1002 |
| 1,2-Dichlorobenzene                   | 50                   | 41             |   | 1   | 83    | 57-131      | 09/24/2013 1002 |
| Dichlorodifluoromethane               | 50                   | 36             |   | 1   | 72    | 10-157      | 09/24/2013 1002 |
| 1,2-Dichloroethane                    | 50                   | 50             |   | 1   | 99    | 67-129      | 09/24/2013 1002 |
| 1,1-Dichloroethane                    | 50                   | 47             |   | 1   | 94    | 71-127      | 09/24/2013 1002 |
| trans-1,2-Dichloroethene              | 50                   | 48             |   | 1   | 96    | 68-131      | 09/24/2013 1002 |
| cis-1,2-Dichloroethene                | 50                   | 48             |   | 1   | 96    | 70-122      | 09/24/2013 1002 |
| 1,1-Dichloroethene                    | 50                   | 48             |   | 1   | 96    | 69-138      | 09/24/2013 1002 |
| 1,2-Dichloropropane                   | 50                   | 48             |   | 1   | 96    | 72-124      | 09/24/2013 1002 |
| trans-1,3-Dichloropropene             | 50                   | 44             |   | 1   | 88    | 70-124      | 09/24/2013 1002 |
| cis-1,3-Dichloropropene               | 50                   | 50             |   | 1   | 101   | 70-126      | 09/24/2013 1002 |
| Ethylbenzene                          | 50                   | 45             |   | 1   | 90    | 59-128      | 09/24/2013 1002 |
| 2-Hexanone                            | 100                  | 110            |   | 1   | 107   | 54-137      | 09/24/2013 1002 |
| Isopropylbenzene                      | 50                   | 46             |   | 1   | 92    | 50-136      | 09/24/2013 1002 |
| Methyl acetate                        | 50                   | 52             |   | 1   | 104   | 59-137      | 09/24/2013 1002 |
| Methyl tertiary butyl ether (MTBE)    | 50                   | 50             |   | 1   | 101   | 70-130      | 09/24/2013 1002 |
| 4-Methyl-2-pentanone                  | 100                  | 120            |   | 1   | 117   | 60-134      | 09/24/2013 1002 |
| Methylcyclohexane                     | 50                   | 50             |   | 1   | 101   | 41-144      | 09/24/2013 1002 |
| Methylene chloride                    | 50                   | 45             |   | 1   | 90    | 70-130      | 09/24/2013 1002 |
| Styrene                               | 50                   | 44             |   | 1   | 88    | 54-136      | 09/24/2013 1002 |
| 1,1,2,2-Tetrachloroethane             | 50                   | 47             |   | 1   | 94    | 69-132      | 09/24/2013 1002 |
| Tetrachloroethene                     | 50                   | 43             |   | 1   | 87    | 45-150      | 09/24/2013 1002 |
| Toluene                               | 50                   | 49             |   | 1   | 98    | 61-129      | 09/24/2013 1002 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50                   | 46             |   | 1   | 91    | 49-136      | 09/24/2013 1002 |
| 1,2,4-Trichlorobenzene                | 50                   | 41             |   | 1   | 82    | 34-145      | 09/24/2013 1002 |
| 1,1,2-Trichloroethane                 | 50                   | 45             |   | 1   | 89    | 55-128      | 09/24/2013 1002 |
| 1,1,1-Trichloroethane                 | 50                   | 50             |   | 1   | 100   | 63-128      | 09/24/2013 1002 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30082-002

Matrix: Solid

Batch: 30082

Prep Method: 5035

Analytical Method: 8260B

| Parameter              | Spike Amount (ug/kg) | Result (ug/kg) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------|----------------------|----------------|------------------|-----|-------|-------------|-----------------|
| Trichloroethene        | 50                   | 49             |                  | 1   | 97    | 62-126      | 09/24/2013 1002 |
| Trichlorofluoromethane | 50                   | 47             |                  | 1   | 93    | 45-138      | 09/24/2013 1002 |
| Vinyl chloride         | 50                   | 50             |                  | 1   | 100   | 42-132      | 09/24/2013 1002 |
| Xylenes (total)        | 100                  | 92             |                  | 1   | 92    | 58-128      | 09/24/2013 1002 |
| Surrogate              | Q                    | % Rec          | Acceptance Limit |     |       |             |                 |
| Bromofluorobenzene     |                      | 103            | 47-138           |     |       |             |                 |
| 1,2-Dichloroethane-d4  |                      | 106            | 53-142           |     |       |             |                 |
| Toluene-d8             |                      | 117            | 68-124           |     |       |             |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - LCSD

Sample ID: QQ30082-003

Matrix: Solid

Batch: 30082

Prep Method: 5035

Analytical Method: 8260B

| Parameter                             | Spike Amount (ug/kg) | Result (ug/kg) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|---------------------------------------|----------------------|----------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Acetone                               | 100                  | 94             |   | 1   | 94    | 11    | 60-140      | 20          | 09/24/2013 1026 |
| Benzene                               | 50                   | 46             |   | 1   | 92    | 6.3   | 69-123      | 20          | 09/24/2013 1026 |
| Bromodichloromethane                  | 50                   | 43             |   | 1   | 87    | 7.6   | 69-121      | 20          | 09/24/2013 1026 |
| Bromoform                             | 50                   | 44             |   | 1   | 88    | 0.42  | 61-119      | 20          | 09/24/2013 1026 |
| Bromomethane (Methyl bromide)         | 50                   | 42             |   | 1   | 84    | 10    | 10-168      | 20          | 09/24/2013 1026 |
| 2-Butanone (MEK)                      | 100                  | 100            |   | 1   | 101   | 12    | 57-148      | 20          | 09/24/2013 1026 |
| Carbon disulfide                      | 50                   | 47             |   | 1   | 94    | 6.4   | 58-122      | 20          | 09/24/2013 1026 |
| Carbon tetrachloride                  | 50                   | 46             |   | 1   | 91    | 6.5   | 58-136      | 20          | 09/24/2013 1026 |
| Chlorobenzene                         | 50                   | 41             |   | 1   | 82    | 4.1   | 59-129      | 20          | 09/24/2013 1026 |
| Chloroethane                          | 50                   | 43             |   | 1   | 86    | 7.4   | 42-163      | 20          | 09/24/2013 1026 |
| Chloroform                            | 50                   | 44             |   | 1   | 88    | 6.2   | 71-125      | 20          | 09/24/2013 1026 |
| Chloromethane (Methyl chloride)       | 50                   | 42             |   | 1   | 83    | 6.0   | 34-134      | 20          | 09/24/2013 1026 |
| Cyclohexane                           | 50                   | 48             |   | 1   | 97    | 2.3   | 53-139      | 20          | 09/24/2013 1026 |
| 1,2-Dibromo-3-chloropropane (DBCP)    | 50                   | 41             |   | 1   | 82    | 12    | 55-125      | 20          | 09/24/2013 1026 |
| Dibromochloromethane                  | 50                   | 41             |   | 1   | 82    | 3.0   | 66-119      | 20          | 09/24/2013 1026 |
| 1,2-Dibromoethane (EDB)               | 50                   | 45             |   | 1   | 89    | 0.27  | 74-124      | 20          | 09/24/2013 1026 |
| 1,4-Dichlorobenzene                   | 50                   | 42             |   | 1   | 83    | 4.8   | 52-133      | 20          | 09/24/2013 1026 |
| 1,3-Dichlorobenzene                   | 50                   | 41             |   | 1   | 83    | 4.2   | 51-134      | 20          | 09/24/2013 1026 |
| 1,2-Dichlorobenzene                   | 50                   | 39             |   | 1   | 78    | 5.5   | 57-131      | 20          | 09/24/2013 1026 |
| Dichlorodifluoromethane               | 50                   | 35             |   | 1   | 69    | 4.1   | 10-157      | 20          | 09/24/2013 1026 |
| 1,2-Dichloroethane                    | 50                   | 46             |   | 1   | 92    | 8.2   | 67-129      | 20          | 09/24/2013 1026 |
| 1,1-Dichloroethane                    | 50                   | 45             |   | 1   | 89    | 5.2   | 71-127      | 20          | 09/24/2013 1026 |
| trans-1,2-Dichloroethene              | 50                   | 46             |   | 1   | 91    | 4.5   | 68-131      | 20          | 09/24/2013 1026 |
| cis-1,2-Dichloroethene                | 50                   | 46             |   | 1   | 92    | 4.2   | 70-122      | 20          | 09/24/2013 1026 |
| 1,1-Dichloroethene                    | 50                   | 44             |   | 1   | 88    | 8.3   | 69-138      | 20          | 09/24/2013 1026 |
| 1,2-Dichloropropane                   | 50                   | 44             |   | 1   | 89    | 7.7   | 72-124      | 20          | 09/24/2013 1026 |
| trans-1,3-Dichloropropene             | 50                   | 42             |   | 1   | 84    | 4.4   | 70-124      | 20          | 09/24/2013 1026 |
| cis-1,3-Dichloropropene               | 50                   | 47             |   | 1   | 95    | 6.2   | 70-126      | 20          | 09/24/2013 1026 |
| Ethylbenzene                          | 50                   | 44             |   | 1   | 88    | 2.7   | 59-128      | 20          | 09/24/2013 1026 |
| 2-Hexanone                            | 100                  | 100            |   | 1   | 104   | 2.3   | 54-137      | 20          | 09/24/2013 1026 |
| Isopropylbenzene                      | 50                   | 46             |   | 1   | 93    | 0.88  | 50-136      | 20          | 09/24/2013 1026 |
| Methyl acetate                        | 50                   | 49             |   | 1   | 98    | 5.2   | 59-137      | 20          | 09/24/2013 1026 |
| Methyl tertiary butyl ether (MTBE)    | 50                   | 48             |   | 1   | 96    | 5.3   | 70-130      | 20          | 09/24/2013 1026 |
| 4-Methyl-2-pentanone                  | 100                  | 110            |   | 1   | 107   | 9.6   | 60-134      | 20          | 09/24/2013 1026 |
| Methylcyclohexane                     | 50                   | 48             |   | 1   | 97    | 3.7   | 41-144      | 20          | 09/24/2013 1026 |
| Methylene chloride                    | 50                   | 41             |   | 1   | 83    | 7.9   | 70-130      | 20          | 09/24/2013 1026 |
| Styrene                               | 50                   | 43             |   | 1   | 87    | 0.97  | 54-136      | 20          | 09/24/2013 1026 |
| 1,1,2,2-Tetrachloroethane             | 50                   | 42             |   | 1   | 84    | 11    | 69-132      | 20          | 09/24/2013 1026 |
| Tetrachloroethene                     | 50                   | 43             |   | 1   | 87    | 0.26  | 45-150      | 20          | 09/24/2013 1026 |
| Toluene                               | 50                   | 47             |   | 1   | 94    | 3.8   | 61-129      | 20          | 09/24/2013 1026 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50                   | 42             |   | 1   | 85    | 7.1   | 49-136      | 20          | 09/24/2013 1026 |
| 1,2,4-Trichlorobenzene                | 50                   | 37             |   | 1   | 75    | 9.4   | 34-145      | 20          | 09/24/2013 1026 |
| 1,1,2-Trichloroethane                 | 50                   | 44             |   | 1   | 88    | 1.6   | 55-128      | 20          | 09/24/2013 1026 |
| 1,1,1-Trichloroethane                 | 50                   | 45             |   | 1   | 91    | 9.9   | 63-128      | 20          | 09/24/2013 1026 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - LCSD

Sample ID: QQ30082-003

Matrix: Solid

Batch: 30082

Prep Method: 5035

Analytical Method: 8260B

| Parameter              | Spike Amount (ug/kg) | Result (ug/kg) | Q                | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------|----------------------|----------------|------------------|-----|-------|-------|-------------|-------------|-----------------|
| Trichloroethene        | 50                   | 46             |                  | 1   | 93    | 4.4   | 62-126      | 20          | 09/24/2013 1026 |
| Trichlorofluoromethane | 50                   | 43             |                  | 1   | 87    | 7.2   | 45-138      | 20          | 09/24/2013 1026 |
| Vinyl chloride         | 50                   | 48             |                  | 1   | 96    | 4.3   | 42-132      | 20          | 09/24/2013 1026 |
| Xylenes (total)        | 100                  | 90             |                  | 1   | 90    | 1.9   | 58-128      | 20          | 09/24/2013 1026 |
| Surrogate              | Q                    | % Rec          | Acceptance Limit |     |       |       |             |             |                 |
| Bromofluorobenzene     |                      | 99             | 47-138           |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4  |                      | 103            | 53-142           |     |       |       |             |             |                 |
| Toluene-d8             |                      | 112            | 68-124           |     |       |       |             |             |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Semivolatile Organic Compounds by GC/MS - MB

Sample ID: OQ30120-001

Batch: 30120

Matrix: Solid

Prep Method: 3550C

Analytical Method: 8270D

Prep Date: 09/24/2013 1816

| Parameter                   | Result | Q | Dil | PQL | Units | Analysis Date   |
|-----------------------------|--------|---|-----|-----|-------|-----------------|
| 1,1'-Biphenyl               | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,4,5-Trichlorophenol       | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,4,6-Trichlorophenol       | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,4-Dichlorophenol          | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,4-Dimethylphenol          | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,4-Dinitrophenol           | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| 2,4-Dinitrotoluene          | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2,6-Dinitrotoluene          | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Chloronaphthalene         | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Chlorophenol              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Methylnaphthalene         | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Methylphenol              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Nitroaniline              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 2-Nitrophenol               | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 3 & 4-Methylphenol          | ND     |   | 1   | 670 | ug/kg | 09/25/2013 1415 |
| 3,3'-Dichlorobenzidine      | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| 3-Nitroaniline              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4,6-Dinitro-2-methylphenol  | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| 4-Bromophenyl phenyl ether  | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4-Chloro-3-methyl phenol    | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4-Chloroaniline             | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4-Chlorophenyl phenyl ether | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4-Nitroaniline              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| 4-Nitrophenol               | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| Acenaphthene                | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Acenaphthylene              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Acetophenone                | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Anthracene                  | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Atrazine                    | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Benzaldehyde                | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| Benzo(a)anthracene          | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Benzo(a)pyrene              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Benzo(b)fluoranthene        | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Benzo(g,h,i)perylene        | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Benzo(k)fluoranthene        | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| bis(2-Chloroethoxy)methane  | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| bis(2-Chloroethyl)ether     | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| bis(2-Chloroisopropyl)ether | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| bis(2-Ethylhexyl)phthalate  | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Butyl benzyl phthalate      | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Caprolactam                 | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| Carbazole                   | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Chrysene                    | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Di-n-butyl phthalate        | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Semivolatile Organic Compounds by GC/MS - MB

Sample ID: OQ30120-001

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2013 1816

| Parameter                              | Result | Q | Dil | PQL | Units | Analysis Date   |
|--|--------|---|-----|-----|-------|-----------------|
| Di-n-octylphthalate                    | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Dibenzo(a,h)anthracene                 | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Dibenzofuran                           | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Diethylphthalate                       | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Dimethyl phthalate                     | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Fluoranthene                           | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Fluorene                               | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Hexachlorobenzene                      | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Hexachlorobutadiene                    | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Hexachlorocyclopentadiene              | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| Hexachloroethane                       | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Indeno(1,2,3-c,d)pyrene                | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Isophorone                             | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| N-Nitrosodi-n-propylamine              | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| N-Nitrosodiphenylamine (Diphenylamine) | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Naphthalene                            | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Nitrobenzene                           | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Pentachlorophenol                      | ND     |   | 1   | 830 | ug/kg | 09/25/2013 1415 |
| Phenanthrene                           | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Phenol                                 | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |
| Pyrene                                 | ND     |   | 1   | 330 | ug/kg | 09/25/2013 1415 |

| Surrogate            | Q | % Rec | Acceptance Limit |
|----------------------|---|-------|------------------|
| 2,4,6-Tribromophenol |   | 109   | 30-117           |
| 2-Fluorobiphenyl     |   | 89    | 33-102           |
| 2-Fluorophenol       |   | 83    | 28-104           |
| Nitrobenzene-d5      |   | 70    | 22-109           |
| Phenol-d5            |   | 83    | 27-103           |
| Terphenyl-d14        |   | 94    | 41-120           |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30120-002

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2013 1816

| Parameter                   | Spike Amount (ug/kg) | Result (ug/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------------------------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| 1,1'-Biphenyl               | 3300                 | 2800           |   | 1   | 84    | 49-110      | 09/25/2013 1438 |
| 2,4,5-Trichlorophenol       | 3300                 | 3000           |   | 1   | 90    | 46-122      | 09/25/2013 1438 |
| 2,4,6-Trichlorophenol       | 3300                 | 3100           |   | 1   | 92    | 38-115      | 09/25/2013 1438 |
| 2,4-Dichlorophenol          | 3300                 | 3000           |   | 1   | 89    | 41-113      | 09/25/2013 1438 |
| 2,4-Dimethylphenol          | 3300                 | 2800           |   | 1   | 84    | 33-123      | 09/25/2013 1438 |
| 2,4-Dinitrophenol           | 17000                | 13000          |   | 1   | 79    | 45-127      | 09/25/2013 1438 |
| 2,4-Dinitrotoluene          | 6700                 | 6200           |   | 1   | 94    | 48-124      | 09/25/2013 1438 |
| 2,6-Dinitrotoluene          | 6700                 | 6300           |   | 1   | 94    | 47-125      | 09/25/2013 1438 |
| 2-Chloronaphthalene         | 3300                 | 2400           |   | 1   | 71    | 31-127      | 09/25/2013 1438 |
| 2-Chlorophenol              | 3300                 | 2700           |   | 1   | 82    | 37-106      | 09/25/2013 1438 |
| 2-Methylnaphthalene         | 3300                 | 2800           |   | 1   | 84    | 40-106      | 09/25/2013 1438 |
| 2-Methylphenol              | 3300                 | 2700           |   | 1   | 82    | 32-107      | 09/25/2013 1438 |
| 2-Nitroaniline              | 6700                 | 6000           |   | 1   | 91    | 45-123      | 09/25/2013 1438 |
| 2-Nitrophenol               | 6700                 | 5500           |   | 1   | 82    | 35-108      | 09/25/2013 1438 |
| 3 & 4-Methylphenol          | 6700                 | 5300           |   | 1   | 80    | 39-108      | 09/25/2013 1438 |
| 3,3'-Dichlorobenzidine      | 6700                 | 5900           |   | 1   | 88    | 46-113      | 09/25/2013 1438 |
| 3-Nitroaniline              | 6700                 | 5500           |   | 1   | 82    | 24-127      | 09/25/2013 1438 |
| 4,6-Dinitro-2-methylphenol  | 17000                | 16000          |   | 1   | 94    | 40-130      | 09/25/2013 1438 |
| 4-Bromophenyl phenyl ether  | 3300                 | 3100           |   | 1   | 92    | 46-118      | 09/25/2013 1438 |
| 4-Chloro-3-methyl phenol    | 3300                 | 3000           |   | 1   | 89    | 49-118      | 09/25/2013 1438 |
| 4-Chloroaniline             | 3300                 | 3900           |   | 1   | 117   | 10-125      | 09/25/2013 1438 |
| 4-Chlorophenyl phenyl ether | 3300                 | 3000           |   | 1   | 89    | 47-116      | 09/25/2013 1438 |
| 4-Nitroaniline              | 6700                 | 7000           |   | 1   | 105   | 48-127      | 09/25/2013 1438 |
| 4-Nitrophenol               | 17000                | 13000          |   | 1   | 77    | 18-154      | 09/25/2013 1438 |
| Acenaphthene                | 3300                 | 2700           |   | 1   | 82    | 46-114      | 09/25/2013 1438 |
| Acenaphthylene              | 3300                 | 3600           |   | 1   | 107   | 44-122      | 09/25/2013 1438 |
| Acetophenone                | 3300                 | 2600           |   | 1   | 79    | 48-111      | 09/25/2013 1438 |
| Anthracene                  | 3300                 | 2900           |   | 1   | 88    | 50-119      | 09/25/2013 1438 |
| Atrazine                    | 3300                 | 2700           |   | 1   | 81    | 48-116      | 09/25/2013 1438 |
| Benzaldehyde                | 3300                 | 2400           |   | 1   | 73    | 34-99       | 09/25/2013 1438 |
| Benzo(a)anthracene          | 3300                 | 3100           |   | 1   | 94    | 47-121      | 09/25/2013 1438 |
| Benzo(a)pyrene              | 3300                 | 3600           |   | 1   | 108   | 55-134      | 09/25/2013 1438 |
| Benzo(b)fluoranthene        | 3300                 | 3400           |   | 1   | 102   | 28-139      | 09/25/2013 1438 |
| Benzo(g,h,i)perylene        | 3300                 | 3600           |   | 1   | 108   | 36-125      | 09/25/2013 1438 |
| Benzo(k)fluoranthene        | 3300                 | 3300           |   | 1   | 99    | 47-130      | 09/25/2013 1438 |
| bis(2-Chloroethoxy)methane  | 3300                 | 2600           |   | 1   | 77    | 39-108      | 09/25/2013 1438 |
| bis(2-Chloroethyl)ether     | 6700                 | 4400           |   | 1   | 66    | 32-105      | 09/25/2013 1438 |
| bis(2-Chloroisopropyl)ether | 3300                 | 2200           |   | 1   | 67    | 31-102      | 09/25/2013 1438 |
| bis(2-Ethylhexyl)phthalate  | 3300                 | 3300           |   | 1   | 99    | 45-128      | 09/25/2013 1438 |
| Butyl benzyl phthalate      | 3300                 | 3200           |   | 1   | 97    | 46-128      | 09/25/2013 1438 |
| Caprolactam                 | 3300                 | 4000           |   | 1   | 120   | 43-121      | 09/25/2013 1438 |
| Carbazole                   | 3300                 | 3500           |   | 1   | 105   | 47-128      | 09/25/2013 1438 |
| Chrysene                    | 3300                 | 3000           |   | 1   | 91    | 45-126      | 09/25/2013 1438 |
| Di-n-butyl phthalate        | 3300                 | 2900           |   | 1   | 88    | 51-129      | 09/25/2013 1438 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30120-002

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2013 1816

| Parameter                              | Spike Amount (ug/kg) | Result (ug/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|--|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Di-n-octylphthalate                    | 3300                 | 3200           |   | 1   | 95    | 49-142      | 09/25/2013 1438 |
| Dibenzo(a,h)anthracene                 | 3300                 | 3200           |   | 1   | 97    | 45-122      | 09/25/2013 1438 |
| Dibenzofuran                           | 3300                 | 2900           |   | 1   | 87    | 45-112      | 09/25/2013 1438 |
| Diethylphthalate                       | 3300                 | 2900           |   | 1   | 86    | 49-123      | 09/25/2013 1438 |
| Dimethyl phthalate                     | 3300                 | 3000           |   | 1   | 90    | 48-120      | 09/25/2013 1438 |
| Fluoranthene                           | 3300                 | 3200           |   | 1   | 96    | 50-123      | 09/25/2013 1438 |
| Fluorene                               | 3300                 | 2800           |   | 1   | 85    | 48-117      | 09/25/2013 1438 |
| Hexachlorobenzene                      | 3300                 | 2900           |   | 1   | 88    | 44-122      | 09/25/2013 1438 |
| Hexachlorobutadiene                    | 3300                 | 2900           |   | 1   | 87    | 33-103      | 09/25/2013 1438 |
| Hexachlorocyclopentadiene              | 17000                | 10000          |   | 1   | 61    | 18-121      | 09/25/2013 1438 |
| Hexachloroethane                       | 3300                 | 2000           |   | 1   | 61    | 30-96       | 09/25/2013 1438 |
| Indeno(1,2,3-c,d)pyrene                | 3300                 | 3400           |   | 1   | 102   | 45-123      | 09/25/2013 1438 |
| Isophorone                             | 3300                 | 2700           |   | 1   | 80    | 41-113      | 09/25/2013 1438 |
| N-Nitrosodi-n-propylamine              | 3300                 | 2500           |   | 1   | 76    | 32-115      | 09/25/2013 1438 |
| N-Nitrosodiphenylamine (Diphenylamine) | 3300                 | 3100           |   | 1   | 94    | 53-150      | 09/25/2013 1438 |
| Naphthalene                            | 3300                 | 2500           |   | 1   | 76    | 36-110      | 09/25/2013 1438 |
| Nitrobenzene                           | 3300                 | 2400           |   | 1   | 71    | 33-114      | 09/25/2013 1438 |
| Pentachlorophenol                      | 17000                | 14000          |   | 1   | 84    | 27-138      | 09/25/2013 1438 |
| Phenanthrene                           | 3300                 | 2800           |   | 1   | 85    | 49-117      | 09/25/2013 1438 |
| Phenol                                 | 3300                 | 2600           |   | 1   | 79    | 36-108      | 09/25/2013 1438 |
| Pyrene                                 | 3300                 | 3200           |   | 1   | 97    | 47-119      | 09/25/2013 1438 |

| Surrogate            | Q | % Rec | Acceptance Limit |
|----------------------|---|-------|------------------|
| 2,4,6-Tribromophenol |   | 105   | 30-117           |
| 2-Fluorobiphenyl     |   | 87    | 33-102           |
| 2-Fluorophenol       |   | 84    | 28-104           |
| Nitrobenzene-d5      |   | 74    | 22-109           |
| Phenol-d5            |   | 81    | 27-103           |
| Terphenyl-d14        |   | 100   | 41-120           |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Herbicides by GC - MB

Sample ID: QQ30128-001

Batch: 30128

Analytical Method: 8151A

Matrix: Solid

Prep Method: 8151A

Prep Date: 09/24/2013 854

| Parameter         | Result | Q     | Dil              | PQL | Units | Analysis Date   |
|-------------------|--------|-------|------------------|-----|-------|-----------------|
| 2,4,5-T           | ND     |       | 1                | 10  | ug/kg | 09/26/2013 1916 |
| 2,4,5-TP (Silvex) | ND     |       | 1                | 10  | ug/kg | 09/26/2013 1916 |
| 2,4-D             | ND     |       | 1                | 40  | ug/kg | 09/26/2013 1916 |
| Surrogate         | Q      | % Rec | Acceptance Limit |     |       |                 |
| DCAA              |        | 81    | 44-114           |     |       |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## Herbicides by GC - LCS

Sample ID: OQ30128-002

Batch: 30128

Analytical Method: 8151A

Matrix: Solid

Prep Method: 8151A

Prep Date: 09/24/2013 854

| Parameter         | Spike Amount (ug/kg) | Result (ug/kg) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|-------------------|----------------------|----------------|------------------|-----|-------|-------------|-----------------|
| 2,4,5-T           | 200                  | 190            |                  | 1   | 93    | 70-130      | 09/26/2013 1939 |
| 2,4,5-TP (Silvex) | 200                  | 220            |                  | 1   | 108   | 58-130      | 09/26/2013 1939 |
| 2,4-D             | 200                  | 180            |                  | 1   | 91    | 70-130      | 09/26/2013 1939 |
| Surrogate         | Q                    | % Rec          | Acceptance Limit |     |       |             |                 |
| DCAA              |                      | 87             | 44-114           |     |       |             |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# PCBs by GC - MB

Sample ID: QQ30162-001

Batch: 30162

Analytical Method: 8082A

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

| Parameter            | Result | Q     | Dil              | PQL | Units | Analysis Date   |
|----------------------|--------|-------|------------------|-----|-------|-----------------|
| Aroclor 1016         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1221         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1232         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1242         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1248         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1254         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Aroclor 1260         | ND     |       | 1                | 17  | ug/kg | 09/26/2013 1256 |
| Surrogate            | Q      | % Rec | Acceptance Limit |     |       |                 |
| Decachlorobiphenyl   |        | 83    | 41-132           |     |       |                 |
| Tetrachloro-m-xylene |        | 76    | 35-106           |     |       |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# PCBs by GC - LCS

Sample ID: OQ30162-002

Batch: 30162

Analytical Method: 8082A

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

| Parameter            | Spike Amount (ug/kg) | Result (ug/kg) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|----------------------|----------------------|----------------|------------------|-----|-------|-------------|-----------------|
| Aroclor 1016         | 83                   | 65             |                  | 1   | 78    | 70-130      | 09/26/2013 1309 |
| Aroclor 1260         | 83                   | 81             |                  | 1   | 98    | 70-130      | 09/26/2013 1309 |
| Surrogate            | Q                    | % Rec          | Acceptance Limit |     |       |             |                 |
| Decachlorobiphenyl   |                      | 82             | 41-132           |     |       |             |                 |
| Tetrachloro-m-xylene |                      | 75             | 35-106           |     |       |             |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Organochlorine Pesticides by GC - MB

Sample ID: OQ30163-001

Batch: 30163

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

| Parameter            | Result | Q     | Dil              | PQL | Units | Analysis Date   |
|----------------------|--------|-------|------------------|-----|-------|-----------------|
| 4,4'-DDD             | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| 4,4'-DDE             | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| 4,4'-DDT             | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Aldrin               | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| alpha-BHC            | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| alpha-Chlordane      | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| beta-BHC             | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| delta-BHC            | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Dieldrin             | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endosulfan I         | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endosulfan II        | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endosulfan sulfate   | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endrin               | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endrin aldehyde      | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Endrin ketone        | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| gamma-BHC (Lindane)  | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| gamma-Chlordane      | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Heptachlor           | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Heptachlor epoxide   | ND     |       | 1                | 1.7 | ug/kg | 09/26/2013 1216 |
| Methoxychlor         | ND     |       | 1                | 6.7 | ug/kg | 09/26/2013 1216 |
| Toxaphene            | ND     |       | 1                | 83  | ug/kg | 09/26/2013 1216 |
| Surrogate            | Q      | % Rec | Acceptance Limit |     |       |                 |
| Decachlorobiphenyl   |        | 83    | 57-110           |     |       |                 |
| Tetrachloro-m-xylene |        | 78    | 37-91            |     |       |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Organochlorine Pesticides by GC - LCS

Sample ID: QQ30163-002

Batch: 30163

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

| Parameter            | Spike Amount (ug/kg) | Result (ug/kg) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|----------------------|----------------------|----------------|------------------|-----|-------|-------------|-----------------|
| 4,4'-DDD             | 17                   | 17             |                  | 1   | 97    | 70-130      | 09/26/2013 1231 |
| 4,4'-DDE             | 17                   | 17             |                  | 1   | 102   | 70-130      | 09/26/2013 1231 |
| 4,4'-DDT             | 17                   | 20             |                  | 1   | 120   | 70-130      | 09/26/2013 1231 |
| Aldrin               | 17                   | 16             |                  | 1   | 95    | 70-130      | 09/26/2013 1231 |
| alpha-BHC            | 17                   | 15             |                  | 1   | 89    | 70-130      | 09/26/2013 1231 |
| alpha-Chlordane      | 17                   | 17             |                  | 1   | 98    | 70-130      | 09/26/2013 1231 |
| beta-BHC             | 17                   | 16             |                  | 1   | 95    | 70-130      | 09/26/2013 1231 |
| delta-BHC            | 17                   | 17             |                  | 1   | 98    | 70-130      | 09/26/2013 1231 |
| Dieldrin             | 17                   | 17             |                  | 1   | 100   | 70-130      | 09/26/2013 1231 |
| Endosulfan I         | 17                   | 17             |                  | 1   | 99    | 70-130      | 09/26/2013 1231 |
| Endosulfan II        | 17                   | 17             |                  | 1   | 99    | 70-130      | 09/26/2013 1231 |
| Endosulfan sulfate   | 17                   | 16             |                  | 1   | 96    | 70-130      | 09/26/2013 1231 |
| Endrin               | 17                   | 17             |                  | 1   | 97    | 70-130      | 09/26/2013 1231 |
| Endrin aldehyde      | 17                   | 16             |                  | 1   | 93    | 70-130      | 09/26/2013 1231 |
| Endrin ketone        | 17                   | 19             |                  | 1   | 110   | 70-130      | 09/26/2013 1231 |
| gamma-BHC (Lindane)  | 17                   | 16             |                  | 1   | 93    | 70-130      | 09/26/2013 1231 |
| gamma-Chlordane      | 17                   | 17             |                  | 1   | 102   | 70-130      | 09/26/2013 1231 |
| Heptachlor           | 17                   | 16             |                  | 1   | 92    | 70-130      | 09/26/2013 1231 |
| Heptachlor epoxide   | 17                   | 16             |                  | 1   | 94    | 70-130      | 09/26/2013 1231 |
| Methoxychlor         | 17                   | 18             |                  | 1   | 107   | 70-130      | 09/26/2013 1231 |
| Surrogate            | Q                    | % Rec          | Acceptance Limit |     |       |             |                 |
| Decachlorobiphenyl   |                      | 84             | 57-110           |     |       |             |                 |
| Tetrachloro-m-xylene |                      | 79             | 37-91            |     |       |             |                 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**



# TAL Metals - MB

Sample ID: OQ30044-001

Batch: 30044

Matrix: Solid

Prep Method: 3050B

Analytical Method: 6010C

Prep Date: 09/24/2013 1027

| Parameter | Result | Q | Dil | PQL  | Units | Analysis Date   |
|-----------|--------|---|-----|------|-------|-----------------|
| Aluminum  | ND     |   | 1   | 10   | mg/kg | 09/25/2013 1309 |
| Antimony  | ND     |   | 1   | 0.50 | mg/kg | 09/24/2013 2128 |
| Arsenic   | ND     |   | 1   | 0.50 | mg/kg | 09/24/2013 2128 |
| Barium    | ND     |   | 1   | 1.3  | mg/kg | 09/24/2013 2128 |
| Beryllium | ND     |   | 1   | 0.20 | mg/kg | 09/24/2013 2128 |
| Cadmium   | ND     |   | 1   | 0.10 | mg/kg | 09/24/2013 2128 |
| Calcium   | ND     |   | 1   | 250  | mg/kg | 09/24/2013 2128 |
| Chromium  | ND     |   | 1   | 0.25 | mg/kg | 09/24/2013 2128 |
| Cobalt    | ND     |   | 1   | 1.3  | mg/kg | 09/24/2013 2128 |
| Copper    | ND     |   | 1   | 0.25 | mg/kg | 09/24/2013 2128 |
| Iron      | ND     |   | 1   | 5.0  | mg/kg | 09/24/2013 2128 |
| Lead      | ND     |   | 1   | 0.50 | mg/kg | 09/24/2013 2128 |
| Magnesium | ND     |   | 1   | 250  | mg/kg | 09/24/2013 2128 |
| Manganese | ND     |   | 1   | 0.75 | mg/kg | 09/24/2013 2128 |
| Nickel    | ND     |   | 1   | 2.0  | mg/kg | 09/24/2013 2128 |
| Potassium | ND     |   | 1   | 250  | mg/kg | 09/24/2013 2128 |
| Selenium  | ND     |   | 1   | 0.50 | mg/kg | 09/24/2013 2128 |
| Silver    | ND     |   | 1   | 0.25 | mg/kg | 09/24/2013 2128 |
| Sodium    | ND     |   | 1   | 250  | mg/kg | 09/24/2013 2128 |
| Thallium  | ND     |   | 1   | 2.5  | mg/kg | 09/24/2013 2128 |
| Vanadium  | ND     |   | 1   | 2.5  | mg/kg | 09/24/2013 2128 |
| Zinc      | ND     |   | 1   | 2.5  | mg/kg | 09/24/2013 2128 |

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**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# TAL Metals - LCS

Sample ID: OQ30044-002

Batch: 30044

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 09/24/2013 1027

| Parameter | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Aluminum  | 1000                 | 960            |   | 1   | 96    | 80-120      | 09/25/2013 1312 |
| Antimony  | 50                   | 45             |   | 1   | 90    | 80-120      | 09/24/2013 2131 |
| Arsenic   | 250                  | 230            |   | 1   | 90    | 80-120      | 09/24/2013 2131 |
| Barium    | 500                  | 430            |   | 1   | 86    | 80-120      | 09/24/2013 2131 |
| Beryllium | 100                  | 95             |   | 1   | 95    | 80-120      | 09/24/2013 2131 |
| Cadmium   | 50                   | 42             |   | 1   | 85    | 80-120      | 09/24/2013 2131 |
| Calcium   | 2000                 | 1800           |   | 1   | 91    | 80-120      | 09/24/2013 2131 |
| Chromium  | 250                  | 240            |   | 1   | 95    | 80-120      | 09/24/2013 2131 |
| Cobalt    | 100                  | 96             |   | 1   | 96    | 80-120      | 09/24/2013 2131 |
| Copper    | 100                  | 92             |   | 1   | 92    | 80-120      | 09/24/2013 2131 |
| Iron      | 1000                 | 940            |   | 1   | 94    | 80-120      | 09/24/2013 2131 |
| Lead      | 250                  | 230            |   | 1   | 91    | 80-120      | 09/24/2013 2131 |
| Magnesium | 2000                 | 1900           |   | 1   | 95    | 80-120      | 09/24/2013 2131 |
| Manganese | 100                  | 93             |   | 1   | 93    | 80-120      | 09/24/2013 2131 |
| Nickel    | 100                  | 95             |   | 1   | 95    | 80-120      | 09/24/2013 2131 |
| Potassium | 2000                 | 2000           |   | 1   | 100   | 80-120      | 09/24/2013 2131 |
| Selenium  | 50                   | 41             |   | 1   | 82    | 80-120      | 09/24/2013 2131 |
| Silver    | 250                  | 220            |   | 1   | 86    | 80-120      | 09/24/2013 2131 |
| Sodium    | 2000                 | 1900           |   | 1   | 97    | 80-120      | 09/24/2013 2131 |
| Thallium  | 40                   | 37             |   | 1   | 92    | 80-120      | 09/24/2013 2131 |
| Vanadium  | 100                  | 95             |   | 1   | 95    | 80-120      | 09/24/2013 2131 |
| Zinc      | 100                  | 92             |   | 1   | 92    | 80-120      | 09/24/2013 2131 |

PQL = Practical quantitation limit

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N = Recovery is out of criteria

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J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# TAL Metals - LCSD

Sample ID: OQ30044-003

Batch: 30044

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 09/24/2013 1027

| Parameter | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|-----------|----------------------|----------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Aluminum  | 1000                 | 990            |   | 1   | 99    | 3.1   | 80-120      | 20          | 09/25/2013 1316 |
| Antimony  | 50                   | 47             |   | 1   | 93    | 3.9   | 80-120      | 20          | 09/24/2013 2135 |
| Arsenic   | 250                  | 230            |   | 1   | 94    | 3.5   | 80-120      | 20          | 09/24/2013 2135 |
| Barium    | 500                  | 440            |   | 1   | 88    | 3.0   | 80-120      | 20          | 09/24/2013 2135 |
| Beryllium | 100                  | 100            |   | 1   | 101   | 5.8   | 80-120      | 20          | 09/24/2013 2135 |
| Cadmium   | 50                   | 44             |   | 1   | 88    | 3.8   | 80-120      | 20          | 09/24/2013 2135 |
| Calcium   | 2000                 | 1900           |   | 1   | 94    | 3.0   | 80-120      | 20          | 09/24/2013 2135 |
| Chromium  | 250                  | 250            |   | 1   | 99    | 4.8   | 80-120      | 20          | 09/24/2013 2135 |
| Cobalt    | 100                  | 100            |   | 1   | 100   | 3.4   | 80-120      | 20          | 09/24/2013 2135 |
| Copper    | 100                  | 97             |   | 1   | 97    | 4.7   | 80-120      | 20          | 09/24/2013 2135 |
| Iron      | 1000                 | 960            |   | 1   | 96    | 2.4   | 80-120      | 20          | 09/24/2013 2135 |
| Lead      | 250                  | 240            |   | 1   | 95    | 3.4   | 80-120      | 20          | 09/24/2013 2135 |
| Magnesium | 2000                 | 1900           |   | 1   | 97    | 2.0   | 80-120      | 20          | 09/24/2013 2135 |
| Manganese | 100                  | 97             |   | 1   | 97    | 4.3   | 80-120      | 20          | 09/24/2013 2135 |
| Nickel    | 100                  | 98             |   | 1   | 98    | 3.7   | 80-120      | 20          | 09/24/2013 2135 |
| Potassium | 2000                 | 2000           |   | 1   | 101   | 1.3   | 80-120      | 20          | 09/24/2013 2135 |
| Selenium  | 50                   | 43             |   | 1   | 86    | 4.9   | 80-120      | 20          | 09/24/2013 2135 |
| Silver    | 250                  | 220            |   | 1   | 90    | 4.2   | 80-120      | 20          | 09/24/2013 2135 |
| Sodium    | 2000                 | 2000           |   | 1   | 99    | 1.9   | 80-120      | 20          | 09/24/2013 2135 |
| Thallium  | 40                   | 38             |   | 1   | 95    | 3.2   | 80-120      | 20          | 09/24/2013 2135 |
| Vanadium  | 100                  | 99             |   | 1   | 99    | 3.9   | 80-120      | 20          | 09/24/2013 2135 |
| Zinc      | 100                  | 95             |   | 1   | 95    | 3.4   | 80-120      | 20          | 09/24/2013 2135 |

PQL = Practical quantitation limit

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ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## TAL Metals - MB

Sample ID: QQ30274-001

Batch: 30274

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 09/26/2013 1044

| Parameter | Result | Q | Dil | PQL   | Units | Analysis Date   |
|-----------|--------|---|-----|-------|-------|-----------------|
| Mercury   | ND     |   | 1   | 0.083 | mg/kg | 09/26/2013 1212 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## TAL Metals - LCS

Sample ID: OQ30274-002

Batch: 30274

Matrix: Solid

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 09/26/2013 1044

| Parameter | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------|----------------------|----------------|---|-----|-------|-------------|-----------------|
| Mercury   | 0.83                 | 0.79           |   | 1   | 95    | 85-115      | 09/26/2013 1214 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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## TAL Metals - LCSD

Sample ID: QQ30274-003

Batch: 30274

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 09/26/2013 1044

| Parameter | Spike Amount (mg/kg) | Result (mg/kg) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|-----------|----------------------|----------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Mercury   | 0.83                 | 0.78           |   | 1   | 94    | 1.4   | 85-115      | 20          | 09/26/2013 1217 |

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

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# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: F-AD-016  
Revision Number: 11

Page 1 of 1  
Replaces Date: 01/28/13  
Effective Date: 04/18/13

## Sample Receipt Checklist (SRC)

Client: Cover to you Cooler Inspected by/date: ECC 9/24/13 Lot #: 0124604

|  |   |  |
|--|---|--|
| Means of receipt: <input type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other |   |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/>   | 1. Were custody seals present on the cooler?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/>   | 2. If custody seals were present, were they intact and unbroken?  |  |
| Cooler ID/temperature upon receipt: <u>118</u> °C / <u>  </u> °C / <u>  </u> °C / <u>  </u> °C   |   |  |
| Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles   |   |  |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None  |   |  |
| If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.   |   |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: <u>  </u> (For coolers received via commercial courier, PMs are to be notified immediately.) |  |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>  | 4. Is the commercial courier's packing slip attached to this form?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 5. Were proper custody procedures (relinquished/received) followed?   |  |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>  | 5a. Were samples relinquished by client to commercial courier?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 6. Were sample IDs listed?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 7. Was collection date & time listed?   |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 8. Were tests to be performed listed on the COC?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 9. Did all samples arrive in the proper containers for each test?   |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 10. Did all container label information (ID, date, time) agree with COC?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 11. Did all containers arrive in good condition (unbroken, lids on, etc.)?  |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 12. Was adequate sample volume available?   |  |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | 13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?   |  |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  | 14. Were any samples containers missing?  |  |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  | 15. Were there any excess samples not listed on COC?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 16. Were bubbles present > "pica-size" (¼" or 6mm in diameter) in any VOA vials?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 18. Were all cyanide and/or sulfide samples received at a pH >12?   |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 20. Were collection temperatures documented on the COC for NC samples?  |  |
| Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>  | 21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?   |  |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)    were received incorrectly preserved and were adjusted accordingly in sample receiving with    (H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, HCl, NaOH) with the SR # (number)   

Sample(s)    were received with bubbles > 6 mm in diameter.

Sample(s)    were received with TRC > 0.2 mg/L for NH3/TKN/cyanide/phenol

Sample labels verified by:    Date: 9/24/13

**Corrective Action taken, if necessary:**

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee:    Date of response:   

Comments:





**SOIL ANALYTICAL RESULTS SUMMARY  
HIMCO DUMP  
ELKHART, INDIANA**

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**Sample Location:**

**Stone (#8 Gravel)**

**Sample ID:**

**SO-092313-EB-002**

**Sample Date:**

**9/23/2013**

| Parameters  | Units | IDEM 2012 - Direct Contact |            |          |
|---|-------|----------------------------|------------|----------|
|   |       | Residential                | Industrial |          |
|   |       | a                          | b          |          |
| Volatile Organic Compounds                                  |       |                            |            |          |
| 1,1,1-Trichloroethane                                       | mg/kg | -                          | -          | 0.0051 U |
| 1,1,2,2-Tetrachloroethane                                   | mg/kg | -                          | -          | 0.0051 U |
| 1,1,2-Trichloroethane                                       | mg/kg | -                          | -          | 0.0051 U |
| 1,1-Dichloroethane  | mg/kg | -                          | -          | 0.0051 U |
| 1,1-Dichloroethene  | mg/kg | -                          | -          | 0.0051 U |
| 1,2,4-Trichlorobenzene                                      | mg/kg | -                          | -          | 0.0051 U |
| 1,2-Dibromo-3-chloropropane (DBCP)                          | mg/kg | -                          | -          | 0.0051 U |
| 1,2-Dibromoethane (Ethylene dibromide)                      | mg/kg | -                          | -          | 0.0051 U |
| 1,2-Dichlorobenzene   | mg/kg | -                          | -          | 0.0051 U |
| 1,2-Dichloroethane  | mg/kg | -                          | -          | 0.0051 U |
| 1,2-Dichloropropane   | mg/kg | -                          | -          | 0.0051 U |
| 1,3-Dichlorobenzene   | mg/kg | -                          | -          | 0.0051 U |
| 1,4-Dichlorobenzene   | mg/kg | -                          | -          | 0.0051 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)                      | mg/kg | -                          | -          | 0.01 U   |
| 2-Hexanone  | mg/kg | -                          | -          | 0.01 U   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)        | mg/kg | -                          | -          | 0.01 U   |
| Acetone   | mg/kg | 85000                      | 100000     | 0.02 U   |
| Benzene   | mg/kg | 15                         | 54         | 0.0051 U |
| Bromodichloromethane  | mg/kg | 3.8                        | 14         | 0.0051 U |
| Bromoform   | mg/kg | 870                        | 2200       | 0.0051 U |
| Bromomethane (Methyl bromide)                               | mg/kg | -                          | -          | 0.0051 U |
| Carbon disulfide  | mg/kg | 740                        | 740        | 0.0051 U |
| Carbon tetrachloride  | mg/kg | 8.5                        | 30         | 0.0051 U |
| Chlorobenzene   | mg/kg | 410                        | 760        | 0.0051 U |
| Chloroethane  | mg/kg | -                          | -          | 0.0051 U |
| Chloroform (Trichloromethane)                               | mg/kg | -                          | -          | 0.0051 U |
| Chloromethane (Methyl chloride)                             | mg/kg | -                          | -          | 0.0051 U |
| cis-1,2-Dichloroethene                                      | mg/kg | -                          | -          | 0.0051 U |
| cis-1,3-Dichloropropene                                     | mg/kg | -                          | -          | 0.0051 U |
| Cyclohexane   | mg/kg | 120                        | 120        | 0.0051 U |
| Dibromochloromethane  | mg/kg | 9.5                        | 33         | 0.0051 U |
| Dichlorodifluoromethane (CFC-12)                            | mg/kg | -                          | -          | 0.0051 U |
| Ethylbenzene  | mg/kg | 76                         | 270        | 0.0051 U |
| Isopropyl benzene   | mg/kg | -                          | -          | 0.0051 U |
| Methyl acetate  | mg/kg | 29000                      | 29000      | 0.0051 U |
| Methyl cyclohexane  | mg/kg | -                          | -          | 0.0051 U |
| Methyl tert butyl ether (MTBE)                              | mg/kg | -                          | -          | 0.0051 U |
| Methylene chloride  | mg/kg | 150                        | 530        | 0.0051 U |
| Styrene   | mg/kg | 870                        | 870        | 0.0051 U |
| Tetrachloroethene   | mg/kg | -                          | -          | 0.0051 U |
| Toluene   | mg/kg | 820                        | 820        | 0.0051 U |
| trans-1,2-Dichloroethene                                    | mg/kg | -                          | -          | 0.0051 U |
| trans-1,3-Dichloropropene                                   | mg/kg | -                          | -          | 0.0051 U |
| Trichloroethene   | mg/kg | -                          | -          | 0.0051 U |
| Trichlorofluoromethane (CFC-11)                             | mg/kg | -                          | -          | 0.0051 U |
| Trifluorotrichloroethane (Freon 113)                        | mg/kg | -                          | -          | 0.0051 U |
| Vinyl chloride  | mg/kg | 0.84                       | 17         | 0.0051 U |
| Xylenes (total)   | mg/kg | -                          | -          | 0.0051 U |
| Semivolatile Organic Compounds                              |       |                            |            |          |
| 2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether) | mg/kg | -                          | -          | 0.33 U   |
| 2,4,5-Trichlorophenol                                       | mg/kg | -                          | -          | 0.33 U   |
| 2,4,6-Trichlorophenol                                       | mg/kg | -                          | -          | 0.33 U   |
| 2,4-Dichlorophenol  | mg/kg | -                          | -          | 0.33 U   |
| 2,4-Dimethylphenol  | mg/kg | -                          | -          | 0.33 U   |
| 2,4-Dinitrophenol   | mg/kg | -                          | -          | 0.84 U   |
| 2,4-Dinitrotoluene  | mg/kg | -                          | -          | 0.33 U   |

**SOIL ANALYTICAL RESULTS SUMMARY**  
**HIMCO DUMP**  
**ELKHART, INDIANA**

Page 2 of 4

**Sample Location:**

**Stone (#8 Gravel)**

**Sample ID:**

**SO-092313-FB-002**

**Sample Date:**

**9/23/2013**

| <b>Parameters</b>                 | <b>Units</b> | <b>IDEM 2012 - Direct Contact</b> |                   |        |
|-----------------------------------|--------------|-----------------------------------|-------------------|--------|
|                                   |              | <b>Residential</b>                | <b>Industrial</b> |        |
| 2,6-Dinitrotoluene                | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Chloronaphthalene               | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Chlorophenol                    | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Methylnaphthalene               | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Methylphenol                    | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.33 U |
| 2-Nitrophenol                     | mg/kg        | -                                 | -                 | 0.33 U |
| 3,3'-Dichlorobenzidine            | mg/kg        | -                                 | -                 | 0.84 U |
| 3-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.33 U |
| 4,6-Dinitro-2-methylphenol        | mg/kg        | -                                 | -                 | 0.84 U |
| 4-Bromophenyl phenyl ether        | mg/kg        | -                                 | -                 | 0.33 U |
| 4-Chloro-3-methylphenol           | mg/kg        | -                                 | -                 | 0.33 U |
| 4-Chloroaniline                   | mg/kg        | -                                 | -                 | 0.33 U |
| 4-Chlorophenyl phenyl ether       | mg/kg        | -                                 | -                 | 0.33 U |
| 4-Methylphenol                    | mg/kg        | -                                 | -                 | 0.68 U |
| 4-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.33 U |
| 4-Nitrophenol                     | mg/kg        | -                                 | -                 | 0.84 U |
| Acenaphthene                      | mg/kg        | 4800                              | 33000             | 0.33 U |
| Acenaphthylene                    | mg/kg        | -                                 | -                 | 0.33 U |
| Acetophenone                      | mg/kg        | 2500                              | 2500              | 0.33 U |
| Anthracene                        | mg/kg        | 24000                             | 100000            | 0.33 U |
| Atrazine                          | mg/kg        | 29                                | 75                | 0.33 U |
| Benzaldehyde                      | mg/kg        | 1200                              | 1200              | 0.84 U |
| Benzo(a)anthracene                | mg/kg        | -                                 | -                 | 0.33 U |
| Benzo(a)pyrene                    | mg/kg        | -                                 | -                 | 0.33 U |
| Benzo(b)fluoranthene              | mg/kg        | -                                 | -                 | 0.33 U |
| Benzo(g,h,i)perylene              | mg/kg        | -                                 | -                 | 0.33 U |
| Benzo(k)fluoranthene              | mg/kg        | -                                 | -                 | 0.33 U |
| Biphenyl (1,1-Biphenyl)           | mg/kg        | -                                 | -                 | 0.33 U |
| bis(2-Chloroethoxy)methane        | mg/kg        | 250                               | 1800              | 0.33 U |
| bis(2-Chloroethyl)ether           | mg/kg        | 2.9                               | 10                | 0.33 U |
| bis(2-Ethylhexyl)phthalate (DEHP) | mg/kg        | -                                 | -                 | 0.33 U |
| Butyl benzylphthalate (BBP)       | mg/kg        | -                                 | -                 | 0.33 U |
| Caprolactam                       | mg/kg        | 43000                             | 100000            | 0.84 U |
| Carbazole                         | mg/kg        | -                                 | -                 | 0.33 U |
| Chrysene                          | mg/kg        | 210                               | 2100              | 0.33 U |
| Dibenz(a,h)anthracene             | mg/kg        | -                                 | -                 | 0.33 U |
| Dibenzofuran                      | mg/kg        | 110                               | 170               | 0.33 U |
| Diethyl phthalate                 | mg/kg        | 69000                             | 100000            | 0.33 U |
| Dimethyl phthalate                | mg/kg        | -                                 | -                 | 0.33 U |
| Di-n-butylphthalate (DBP)         | mg/kg        | -                                 | -                 | 0.33 U |
| Di-n-octyl phthalate (DnOP)       | mg/kg        | -                                 | -                 | 0.33 U |
| Fluoranthene                      | mg/kg        | 3200                              | 22000             | 0.33 U |
| Fluorene                          | mg/kg        | 3200                              | 22000             | 0.33 U |
| Hexachlorobenzene                 | mg/kg        | 4.2                               | 11                | 0.33 U |
| Hexachlorobutadiene               | mg/kg        | 85                                | 220               | 0.33 U |
| Hexachlorocyclopentadiene         | mg/kg        | 520                               | 3700              | 0.84 U |
| Hexachloroethane                  | mg/kg        | 60                                | 430               | 0.33 U |
| Indeno(1,2,3-cd)pyrene            | mg/kg        | -                                 | -                 | 0.33 U |
| Isophorone                        | mg/kg        | 7100                              | 18000             | 0.33 U |
| Naphthalene                       | mg/kg        | 50                                | 180               | 0.33 U |
| Nitrobenzene                      | mg/kg        | 67                                | 240               | 0.33 U |
| N-Nitrosodi-n-propylamine         | mg/kg        | -                                 | -                 | 0.33 U |
| N-Nitrosodiphenylamine            | mg/kg        | -                                 | -                 | 0.33 U |
| Pentachlorophenol                 | mg/kg        | 12                                | 27                | 0.84 U |
| Phenanthrene                      | mg/kg        | -                                 | -                 | 0.33 U |
| Phenol                            | mg/kg        | 25000                             | 100000            | 0.33 U |
| Pyrene                            | mg/kg        | 2400                              | 17000             | 0.33 U |

**SOIL ANALYTICAL RESULTS SUMMARY  
HIMCO DUMP  
ELKHART, INDIANA**

Page 3 of 4

**Sample Location:**

**Stone (#8 Gravel)**

**Sample ID:**

**SO-092313-EB-002**

**Sample Date:**

**9/23/2013**

| <b>Parameters</b>                      | <b>IDEM 2012 - Direct Contact</b> |                    |                   |          |
|--|-----------------------------------|--------------------|-------------------|----------|
|  | <b>Units</b>                      | <b>Residential</b> | <b>Industrial</b> |          |
| <b>Metals</b>                          |                                   |                    |                   |          |
| Aluminum                               | mg/kg                             | 100000             | 100000            | 530      |
| Antimony                               | mg/kg                             | -                  | -                 | 0.49 U   |
| Arsenic                                | mg/kg                             | -                  | -                 | 4.8      |
| Barium                                 | mg/kg                             | 21000              | 100000            | 5.0      |
| Beryllium                              | mg/kg                             | -                  | -                 | 0.20 U   |
| Cadmium                                | mg/kg                             | -                  | -                 | 0.099 U  |
| Calcium                                | mg/kg                             | -                  | -                 | 250000   |
| Chromium                               | mg/kg                             | -                  | -                 | 3.7      |
| Cobalt                                 | mg/kg                             | 32                 | 300               | 1.3 U    |
| Copper                                 | mg/kg                             | 4300               | 41000             | 6.9      |
| Iron                                   | mg/kg                             | 77000              | 100000            | 8500     |
| Lead                                   | mg/kg                             | -                  | -                 | 0.49 U   |
| Magnesium                              | mg/kg                             | -                  | -                 | 160000   |
| Manganese                              | mg/kg                             | -                  | -                 | 280      |
| Mercury                                | mg/kg                             | -                  | -                 | 0.074 U  |
| Nickel                                 | mg/kg                             | -                  | -                 | 2.7      |
| Potassium                              | mg/kg                             | -                  | -                 | 250      |
| Selenium                               | mg/kg                             | 550                | 5100              | 0.49 U   |
| Silver                                 | mg/kg                             | 550                | 5100              | 0.25 U   |
| Sodium                                 | mg/kg                             | -                  | -                 | 250 U    |
| Thallium                               | mg/kg                             | -                  | -                 | 2.5 U    |
| Vanadium                               | mg/kg                             | -                  | -                 | 6.9      |
| Zinc                                   | mg/kg                             | -                  | -                 | 13       |
| <b>Herbicides</b>                      |                                   |                    |                   |          |
| 2,4,5-T                                | mg/kg                             | -                  | -                 | 0.01 U   |
| 2,4,5-TP (Silvex)                      | mg/kg                             | -                  | -                 | 0.01 U   |
| 2,4-Dichlorophenoxyacetic acid (2,4-D) | mg/kg                             | -                  | -                 | 0.041 U  |
| <b>Pesticides</b>                      |                                   |                    |                   |          |
| 4,4'-DDD                               | mg/kg                             | -                  | -                 | 0.0017 U |
| 4,4'-DDE                               | mg/kg                             | -                  | -                 | 0.0017 U |
| 4,4'-DDT                               | mg/kg                             | -                  | -                 | 0.0017 U |
| Aldrin                                 | mg/kg                             | 0.41               | 1                 | 0.0017 U |
| alpha-BHC                              | mg/kg                             | -                  | -                 | 0.0017 U |
| alpha-Chlordane                        | mg/kg                             | -                  | -                 | 0.0017 U |
| beta-BHC                               | mg/kg                             | -                  | -                 | 0.0017 U |
| delta-BHC                              | mg/kg                             | -                  | -                 | 0.0017 U |
| Dieldrin                               | mg/kg                             | 0.42               | 1.1               | 0.0017 U |
| Endosulfan I                           | mg/kg                             | -                  | -                 | 0.0017 U |
| Endosulfan II                          | mg/kg                             | -                  | -                 | 0.0017 U |
| Endosulfan sulfate                     | mg/kg                             | -                  | -                 | 0.0017 U |
| Endrin                                 | mg/kg                             | 25                 | 180               | 0.0017 U |
| Endrin aldehyde                        | mg/kg                             | -                  | -                 | 0.0017 U |
| Endrin ketone                          | mg/kg                             | -                  | -                 | 0.0017 U |
| gamma-BHC (lindane)                    | mg/kg                             | -                  | -                 | 0.0017 U |
| gamma-Chlordane                        | mg/kg                             | -                  | -                 | 0.0017 U |
| Heptachlor                             | mg/kg                             | 1.5                | 3.8               | 0.0017 U |
| Heptachlor epoxide                     | mg/kg                             | 0.74               | 1.9               | 0.0017 U |
| Methoxychlor                           | mg/kg                             | 430                | 3100              | 0.0068 U |
| Toxaphene                              | mg/kg                             | 6.2                | 16                | 0.084 U  |
| <b>PCBs</b>                            |                                   |                    |                   |          |
| Aroclor-1016 (PCB-1016)                | mg/kg                             | -                  | -                 | 0.017 U  |
| Aroclor-1221 (PCB-1221)                | mg/kg                             | -                  | -                 | 0.017 U  |
| Aroclor-1232 (PCB-1232)                | mg/kg                             | -                  | -                 | 0.017 U  |
| Aroclor-1242 (PCB-1242)                | mg/kg                             | -                  | -                 | 0.017 U  |
| Aroclor-1248 (PCB-1248)                | mg/kg                             | -                  | -                 | 0.017 U  |

**SOIL ANALYTICAL RESULTS SUMMARY  
HIMCO DUMP  
ELKHART, INDIANA**

Page 4 of 4

**Sample Location:**

**Stone (#8 Gravel)**

**Sample ID:**

**SO-092313-EB-002**

**Sample Date:**

**9/23/2013**

| <b>Parameters</b>        | <b>Units</b> | <b>IDEM 2012 - Direct Contact</b> |                   |         |
|--------------------------|--------------|-----------------------------------|-------------------|---------|
|                          |              | <b>Residential</b>                | <b>Industrial</b> |         |
| Aroclor-1254 (PCB-1254)  | mg/kg        | -                                 | -                 | 0.017 U |
| Aroclor-1260 (PCB-1260)  | mg/kg        | -                                 | -                 | 0.017 U |
| <b>General Chemistry</b> |              |                                   |                   |         |
| Cyanide (total)          | mg/kg        | -                                 | -                 | 0.51 U  |
| Percent solids, vol.     | %            | -                                 | -                 | 97.5    |

**Notes**

U - Not detected at the associated reporting limit

PREPARED BY:



**CONESTOGA-ROVERS  
& ASSOCIATES**

200 W. Allegan Street, Suite 300  
Plainwell, Michigan 49080  
Telephone: (269) 685-5181 Fax: (269) 685-5223  
www.CRAworld.com

**SUBMITTAL**

DATE: 10-17-13

SUBMITTAL NO.: 82098-62

PROJECT NO.: 82098

PROJECT NAME: Himco Landfill Cap

CLIENT: Bayer HealthCare LLC

ENGINEER: Conestoga-Rovers & Associates

6 West Belt Plaza

651 Colby Drive

Wayne, New Jersey 07470

Waterloo, ON N2V 1C2

SUPPLIER: C and E

SUBCONTRACTOR:

County Road 9

Elkhart, Indiana

MANUFACTURER:

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED                |
|-----|-------------------|----------|---|
| 1   | Topsoil           | N/A      | Progress Submittals- Topsoil Progress Submittal |
|     |                   |          |   |

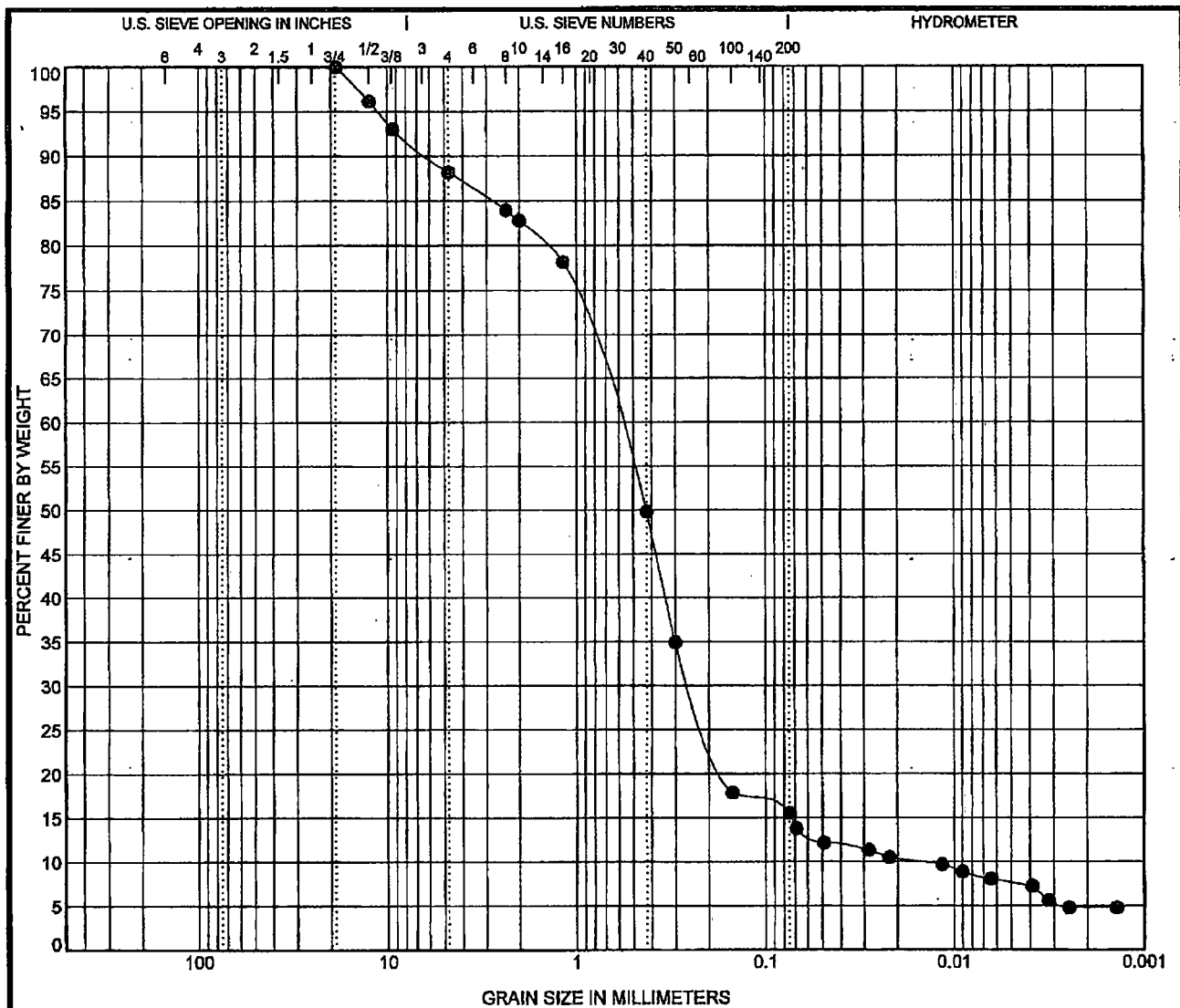
CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:

COPY TO: Tom Lenz (Bayer)  
Doug Gatrell (CRA)  
Nicole Shanks (CRA)

COMPLETED BY: Don Osterhout

[Please Print]

SIGNED:



| COBBLES | GRAVEL |      | SAND   |        |      | SILT OR CLAY |
|---------|--------|------|--------|--------|------|--------------|
|         | coarse | fine | coarse | medium | fine |              |

| Specimen Identification |   | Classification                           |       |       |       | LL      | PL    | PI    | Cc    | Cu    |
|-------------------------|---|--|-------|-------|-------|---------|-------|-------|-------|-------|
| ● TS-2EB                | 0 | (SM) SAND with silt, trace gravel & clay |       |       |       |         |       |       | 6.71  | 41.86 |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |
| Specimen Identification |   | D100                                     | D60   | D30   | D10   | %Gravel | %Sand | %Silt | %Clay |       |
| ● TS-2EB                | 0 | 18.75                                    | 0.613 | 0.245 | 0.015 | 11.8    | 72.6  | 10.8  | 4.8   |       |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |
|                         |   |  |       |       |       |         |       |       |       |       |



**CONESTOGA-ROVERS  
& ASSOCIATES**

### GRAIN SIZE DISTRIBUTION

Project Name: HIMCO  
Project Number: 056916-36  
Client:  
Location:

Test by: \_\_\_\_\_ Checked by: \_\_\_\_\_

Report No.  
F13267-0081  
Account No.  
18720

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808 • 260-483-4759 • Fax 260-483-5274  
www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS®

To: CONESTOGA ROVERS & ASSOC  
6520 CORPORATE DR  
INDIANAPOLIS, IN 46278

For: CRA SERVICES  
269-685-5181

Attn: MICHAEL RICHARDSON

Date Received: 09/24/2013

Date Reported: 09/27/2013

## SOIL TEST REPORT

Page: 1 of 1

| Sample ID | Lab Number | Organic Matter % | Phosphorus         |                | Potassium K ppm | Magnesium Mg ppm | Calcium Ca ppm | Sodium Na ppm | pH      |           | Cation Exchange Capacity meq/100g | Percent Cation Saturation |      |      |      |
|-----------|------------|------------------|--------------------|----------------|-----------------|------------------|----------------|---------------|---------|-----------|-----------------------------------|---------------------------|------|------|------|
|           |            |                  | Bray 1 Equiv ppm-P | Bray 1/2 ppm-P |                 |                  |                |               | Soil pH | Buffer pH |                                   | % K                       | % Mg | % Ca | % Na |
| TS-EB1    | 23735      | 1.0              | 69 VH              |                | 60 L            | 105 VH           | 450 M          |               | 6.6     | 7.0       | 3.3                               | 4.7                       | 26.7 | 68.6 |      |
| TS-EB2    | 23736      | 0.6              | 74 VH              |                | 59 L            | 110 VH           | 450 M          |               | 6.5     | 7.0       | 3.3                               | 4.6                       | 27.8 | 67.8 |      |
| TS-EB3    | 23737      | 1.1              | 88 VH              |                | 73 M            | 120 H            | 650 M          |               | 7.4     |           | 4.4                               | 4.2                       | 22.5 | 73.2 |      |
| TS-EB4    | 23738      | 1.1              | 95 VH              |                | 71 M            | 130 H            | 750 M          |               | 7.5     |           | 5.0                               | 3.6                       | 21.6 | 74.8 |      |
| TS-EB5    | 23739      | 1.5              | 38 H               |                | 65 L            | 180 H            | 1500 H         |               | 7.6     |           | 9.2                               | 1.8                       | 16.4 | 81.8 |      |
| TS-EB6    | 23740      | 1.8              | 40 H               |                | 69 L            | 195 H            | 1600 H         |               | 7.4     |           | 9.8                               | 1.8                       | 16.6 | 81.6 |      |
| TS-EB7    | 23741      | 2.2              | 40 H               |                | 69 L            | 205 H            | 1800 H         |               | 7.6     |           | 10.9                              | 1.6                       | 15.7 | 82.7 |      |
| TS-EB8    | 23742      | 2.0              | 40 H               |                | 83 L            | 205 H            | 1750 H         |               | 7.5     |           | 10.6                              | 1.5                       | 16.1 | 82.4 |      |

VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| Sample ID | Sulfur S ppm | Zinc Zn ppm | Manganese Mn ppm | Iron Fe ppm | Copper Cu ppm | Boron B ppm | Soluble Salts mmhos/cm | Nitrate NO3-N ppm | Ammonium NH4-N ppm | Bicarb P ppm |  |  |  | Comments |
|-----------|--------------|-------------|------------------|-------------|---------------|-------------|------------------------|-------------------|--------------------|--------------|--|--|--|----------|
| TS-EB1    |              |             |                  |             |               |             |                        | 7 L               | 1 VL               |              |  |  |  |          |
| TS-EB2    |              |             |                  |             |               |             |                        | 8 L               | 2 VL               |              |  |  |  |          |
| TS-EB3    |              |             |                  |             |               |             |                        | 7 L               | 13 M               |              |  |  |  |          |
| TS-EB4    |              |             |                  |             |               |             |                        | 6 L               | 7 L                |              |  |  |  |          |
| TS-EB5    |              |             |                  |             |               |             |                        | 31 H              | 2 VL               |              |  |  |  |          |
| TS-EB6    |              |             |                  |             |               |             |                        | 33 H              | 2 VL               |              |  |  |  |          |
| TS-EB7    |              |             |                  |             |               |             |                        | 36 H              | 2 VL               |              |  |  |  |          |
| TS-EB8    |              |             |                  |             |               |             |                        | 36 H              | 2 VL               |              |  |  |  |          |

Report Number: F13267-0081  
Account Number: 18720

## A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274  
www.algreatlakes.com • lab@algreatlakes.com



**QUALITY ANALYSES FOR INFORMED DECISIONS**

TO: CONESTOGA ROVERS & ASSOC  
6520 CORPORATE DR  
INDIANAPOLIS, IN 46278

RE: CRA SERVICES  
269-685-5181

DATE RECEIVED: 09/24/2013  
DATE REPORTED: 09/27/2013  
PAGE: 1

ATTN: MICHAEL RICHARDSON

### REPORT OF ANALYSIS

| LAB NO | SAMPLE ID | ANALYSIS                    | RESULT | UNIT | METHOD         |
|--------|-----------|-----------------------------|--------|------|----------------|
| 23735  | TS-EB1    | Organic Matter (ASTM D2974) | 1.2    | %    | ASTM D2974-07a |
| 23736  | TS-EB2    | Organic Matter (ASTM D2974) | 1.1    | %    | ASTM D2974-07a |
| 23737  | TS-EB3    | Organic Matter (ASTM D2974) | 1.5    | %    | ASTM D2974-07a |
| 23738  | TS-EB4    | Organic Matter (ASTM D2974) | 1.4    | %    | ASTM D2974-07a |
| 23739  | TS-EB5    | Organic Matter (ASTM D2974) | 2.1    | %    | ASTM D2974-07a |
| 23740  | TS-EB6    | Organic Matter (ASTM D2974) | 2.1    | %    | ASTM D2974-07a |
| 23741  | TS-EB7    | Organic Matter (ASTM D2974) | 2.4    | %    | ASTM D2974-07a |
| 23742  | TS-EB8    | Organic Matter (ASTM D2974) | 2.6    | %    | ASTM D2974-07a |



**SOIL ANALYTICAL RESULTS SUMMARY**  
**HIMCO DUMP**  
**ELKHART, INDIANA**

Page 1 of 4

**Sample Location:**

**Sample ID:**

**Sample Date:**

**Topsoil**

**SO-092313-EB-001**

**9/23/2013**

| Parameters  | Units | IDEM 2012 - Direct Contact |            |          |
|---|-------|----------------------------|------------|----------|
|   |       | Residential                | Industrial |          |
|   |       | a                          | b          |          |
| Volatile Organic Compounds                                  |       |                            |            |          |
| 1,1,1-Trichloroethane                                       | mg/kg | -                          | -          | 0.0071 U |
| 1,1,2,2-Tetrachloroethane                                   | mg/kg | -                          | -          | 0.0071 U |
| 1,1,2-Trichloroethane                                       | mg/kg | -                          | -          | 0.0071 U |
| 1,1-Dichloroethane  | mg/kg | -                          | -          | 0.0071 U |
| 1,1-Dichloroethene  | mg/kg | -                          | -          | 0.0071 U |
| 1,2,4-Trichlorobenzene                                      | mg/kg | -                          | -          | 0.0071 U |
| 1,2-Dibromo-3-chloropropane (DBCP)                          | mg/kg | -                          | -          | 0.0071 U |
| 1,2-Dibromoethane (Ethylene dibromide)                      | mg/kg | -                          | -          | 0.0071 U |
| 1,2-Dichlorobenzene   | mg/kg | -                          | -          | 0.0071 U |
| 1,2-Dichloroethane  | mg/kg | -                          | -          | 0.0071 U |
| 1,2-Dichloropropane   | mg/kg | -                          | -          | 0.0071 U |
| 1,3-Dichlorobenzene   | mg/kg | -                          | -          | 0.0071 U |
| 1,4-Dichlorobenzene   | mg/kg | -                          | -          | 0.0071 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)                      | mg/kg | -                          | -          | 0.014 U  |
| 2-Hexanone  | mg/kg | -                          | -          | 0.014 U  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)        | mg/kg | -                          | -          | 0.014 U  |
| Acetone   | mg/kg | 85000                      | 100000     | 0.028 U  |
| Benzene   | mg/kg | 15                         | 54         | 0.0071 U |
| Bromodichloromethane  | mg/kg | 3.8                        | 14         | 0.0071 U |
| Bromoform   | mg/kg | 870                        | 2200       | 0.0071 U |
| Bromomethane (Methyl bromide)                               | mg/kg | -                          | -          | 0.0071 U |
| Carbon disulfide  | mg/kg | 740                        | 740        | 0.0071 U |
| Carbon tetrachloride  | mg/kg | 8.5                        | 30         | 0.0071 U |
| Chlorobenzene   | mg/kg | 410                        | 760        | 0.0071 U |
| Chloroethane  | mg/kg | -                          | -          | 0.0071 U |
| Chloroform (Trichloromethane)                               | mg/kg | -                          | -          | 0.0071 U |
| Chloromethane (Methyl chloride)                             | mg/kg | -                          | -          | 0.0071 U |
| cis-1,2-Dichloroethene                                      | mg/kg | -                          | -          | 0.0071 U |
| cis-1,3-Dichloropropene                                     | mg/kg | -                          | -          | 0.0071 U |
| Cyclohexane   | mg/kg | 120                        | 120        | 0.0071 U |
| Dibromochloromethane  | mg/kg | 9.5                        | 33         | 0.0071 U |
| Dichlorodifluoromethane (CFC-12)                            | mg/kg | -                          | -          | 0.0071 U |
| Ethylbenzene  | mg/kg | 76                         | 270        | 0.0071 U |
| Isopropyl benzene   | mg/kg | -                          | -          | 0.0071 U |
| Methyl acetate  | mg/kg | 29000                      | 29000      | 0.0071 U |
| Methyl cyclohexane  | mg/kg | -                          | -          | 0.0071 U |
| Methyl tert butyl ether (MTBE)                              | mg/kg | -                          | -          | 0.0071 U |
| Methylene chloride  | mg/kg | 150                        | 530        | 0.0071 U |
| Styrene   | mg/kg | 870                        | 870        | 0.0071 U |
| Tetrachloroethene   | mg/kg | -                          | -          | 0.0071 U |
| Toluene   | mg/kg | 820                        | 820        | 0.0071 U |
| trans-1,2-Dichloroethene                                    | mg/kg | -                          | -          | 0.0071 U |
| trans-1,3-Dichloropropene                                   | mg/kg | -                          | -          | 0.0071 U |
| Trichloroethene   | mg/kg | -                          | -          | 0.0071 U |
| Trichlorofluoromethane (CFC-11)                             | mg/kg | -                          | -          | 0.0071 U |
| Trifluorotrichloroethane (Freon 113)                        | mg/kg | -                          | -          | 0.0071 U |
| Vinyl chloride  | mg/kg | 0.84                       | 17         | 0.0071 U |
| Xylenes (total)   | mg/kg | -                          | -          | 0.0071 U |
| Semivolatile Organic Compounds                              |       |                            |            |          |
| 2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether) | mg/kg | -                          | -          | 0.36 U   |
| 2,4,5-Trichlorophenol                                       | mg/kg | -                          | -          | 0.36 U   |
| 2,4,6-Trichlorophenol                                       | mg/kg | -                          | -          | 0.36 U   |
| 2,4-Dichlorophenol  | mg/kg | -                          | -          | 0.36 U   |
| 2,4-Dimethylphenol  | mg/kg | -                          | -          | 0.36 U   |
| 2,4-Dinitrophenol   | mg/kg | -                          | -          | 0.89 U   |
| 2,4-Dinitrotoluene  | mg/kg | -                          | -          | 0.36 U   |

**SOIL ANALYTICAL RESULTS SUMMARY**  
**HIMCO DUMP**  
**ELKHART, INDIANA**

Page 2 of 4

**Sample Location:**

**Sample ID:**

**Sample Date:**

**Topsoil**

**SO-092313-EB-001**

**9/23/2013**

| <b>Parameters</b>                 | <b>Units</b> | <b>IDEM 2012 - Direct Contact</b> |                   |        |
|-----------------------------------|--------------|-----------------------------------|-------------------|--------|
|                                   |              | <b>Residential</b>                | <b>Industrial</b> |        |
| 2,6-Dinitrotoluene                | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Chloronaphthalene               | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Chlorophenol                    | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Methylnaphthalene               | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Methylphenol                    | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.36 U |
| 2-Nitrophenol                     | mg/kg        | -                                 | -                 | 0.36 U |
| 3,3'-Dichlorobenzidine            | mg/kg        | -                                 | -                 | 0.89 U |
| 3-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.36 U |
| 4,6-Dinitro-2-methylphenol        | mg/kg        | -                                 | -                 | 0.89 U |
| 4-Bromophenyl phenyl ether        | mg/kg        | -                                 | -                 | 0.36 U |
| 4-Chloro-3-methylphenol           | mg/kg        | -                                 | -                 | 0.36 U |
| 4-Chloroaniline                   | mg/kg        | -                                 | -                 | 0.36 U |
| 4-Chlorophenyl phenyl ether       | mg/kg        | -                                 | -                 | 0.36 U |
| 4-Methylphenol                    | mg/kg        | -                                 | -                 | 0.72 U |
| 4-Nitroaniline                    | mg/kg        | -                                 | -                 | 0.36 U |
| 4-Nitrophenol                     | mg/kg        | -                                 | -                 | 0.89 U |
| Acenaphthene                      | mg/kg        | 4800                              | 33000             | 0.36 U |
| Acenaphthylene                    | mg/kg        | -                                 | -                 | 0.36 U |
| Acetophenone                      | mg/kg        | 2500                              | 2500              | 0.36 U |
| Anthracene                        | mg/kg        | 24000                             | 100000            | 0.36 U |
| Atrazine                          | mg/kg        | 29                                | 75                | 0.36 U |
| Benzaldehyde                      | mg/kg        | 1200                              | 1200              | 0.89 U |
| Benzo(a)anthracene                | mg/kg        | -                                 | -                 | 0.36 U |
| Benzo(a)pyrene                    | mg/kg        | -                                 | -                 | 0.36 U |
| Benzo(b)fluoranthene              | mg/kg        | -                                 | -                 | 0.38   |
| Benzo(g,h,i)perylene              | mg/kg        | -                                 | -                 | 0.36 U |
| Benzo(k)fluoranthene              | mg/kg        | -                                 | -                 | 0.36 U |
| Biphenyl (1,1-Biphenyl)           | mg/kg        | -                                 | -                 | 0.36 U |
| bis(2-Chloroethoxy)methane        | mg/kg        | 250                               | 1800              | 0.36 U |
| bis(2-Chloroethyl)ether           | mg/kg        | 2.9                               | 10                | 0.36 U |
| bis(2-Ethylhexyl)phthalate (DEHP) | mg/kg        | -                                 | -                 | 0.36 U |
| Butyl benzylphthalate (BBP)       | mg/kg        | -                                 | -                 | 0.36 U |
| Caprolactam                       | mg/kg        | 43000                             | 100000            | 0.89 U |
| Carbazole                         | mg/kg        | -                                 | -                 | 0.36 U |
| Chrysene                          | mg/kg        | 210                               | 2100              | 0.36 U |
| Dibenz(a,h)anthracene             | mg/kg        | -                                 | -                 | 0.36 U |
| Dibenzofuran                      | mg/kg        | 110                               | 170               | 0.36 U |
| Diethyl phthalate                 | mg/kg        | 69000                             | 100000            | 0.36 U |
| Dimethyl phthalate                | mg/kg        | -                                 | -                 | 0.36 U |
| Di-n-butylphthalate (DBP)         | mg/kg        | -                                 | -                 | 0.36 U |
| Di-n-octyl phthalate (DnOP)       | mg/kg        | -                                 | -                 | 0.36 U |
| Fluoranthene                      | mg/kg        | 3200                              | 22000             | 0.36 U |
| Fluorene                          | mg/kg        | 3200                              | 22000             | 0.36 U |
| Hexachlorobenzene                 | mg/kg        | 4.2                               | 11                | 0.36 U |
| Hexachlorobutadiene               | mg/kg        | 85                                | 220               | 0.36 U |
| Hexachlorocyclopentadiene         | mg/kg        | 520                               | 3700              | 0.89 U |
| Hexachloroethane                  | mg/kg        | 60                                | 430               | 0.36 U |
| Indeno(1,2,3-cd)pyrene            | mg/kg        | -                                 | -                 | 0.36 U |
| Isophorone                        | mg/kg        | 7100                              | 18000             | 0.36 U |
| Naphthalene                       | mg/kg        | 50                                | 180               | 0.36 U |
| Nitrobenzene                      | mg/kg        | 67                                | 240               | 0.36 U |
| N-Nitrosodi-n-propylamine         | mg/kg        | -                                 | -                 | 0.36 U |
| N-Nitrosodiphenylamine            | mg/kg        | -                                 | -                 | 0.36 U |
| Pentachlorophenol                 | mg/kg        | 12                                | 27                | 0.89 U |
| Phenanthrene                      | mg/kg        | -                                 | -                 | 0.36 U |
| Phenol                            | mg/kg        | 25000                             | 100000            | 0.36 U |
| Pyrene                            | mg/kg        | 2400                              | 17000             | 0.36 U |

**SOIL ANALYTICAL RESULTS SUMMARY  
HIMCO DUMP  
ELKHART, INDIANA**

Page 3 of 4

**Sample Location:**

**Sample ID:**

**Sample Date:**

**Topsail**

**SO-092313-EB-001**

**9/23/2013**

| <b>Parameters</b>                      | <b>IDEM 2012 - Direct Contact</b> |                    |                   |          |
|--|-----------------------------------|--------------------|-------------------|----------|
|  | <b>Units</b>                      | <b>Residential</b> | <b>Industrial</b> |          |
| <b>Metals</b>                          |                                   |                    |                   |          |
| Aluminum                               | mg/kg                             | 100000             | 100000            | 6000     |
| Antimony                               | mg/kg                             | -                  | -                 | 0.51 U   |
| Arsenic                                | mg/kg                             | -                  | -                 | 3.9      |
| Barium                                 | mg/kg                             | 21000              | 100000            | 44       |
| Beryllium                              | mg/kg                             | -                  | -                 | 0.20 U   |
| Cadmium                                | mg/kg                             | -                  | -                 | 0.10 U   |
| Calcium                                | mg/kg                             | -                  | -                 | 6900     |
| Chromium                               | mg/kg                             | -                  | -                 | 8.3      |
| Cobalt                                 | mg/kg                             | 32                 | 300               | 3.4      |
| Copper                                 | mg/kg                             | 4300               | 41000             | 12       |
| Iron                                   | mg/kg                             | 77000              | 100000            | 10000    |
| Lead                                   | mg/kg                             | -                  | -                 | 23       |
| Magnesium                              | mg/kg                             | -                  | -                 | 2900     |
| Manganese                              | mg/kg                             | -                  | -                 | 320      |
| Mercury                                | mg/kg                             | -                  | -                 | 0.078 U  |
| Nickel                                 | mg/kg                             | -                  | -                 | 7.6      |
| Potassium                              | mg/kg                             | -                  | -                 | 500      |
| Selenium                               | mg/kg                             | 550                | 5100              | 0.51 U   |
| Silver                                 | mg/kg                             | 550                | 5100              | 0.25 U   |
| Sodium                                 | mg/kg                             | -                  | -                 | 250 U    |
| Thallium                               | mg/kg                             | -                  | -                 | 2.5 U    |
| Vanadium                               | mg/kg                             | -                  | -                 | 18       |
| Zinc                                   | mg/kg                             | -                  | -                 | 49       |
| <b>Herbicides</b>                      |                                   |                    |                   |          |
| 2,4,5-T                                | mg/kg                             | -                  | -                 | 0.011 U  |
| 2,4,5-TP (Silvex)                      | mg/kg                             | -                  | -                 | 0.011 U  |
| 2,4-Dichlorophenoxyacetic acid (2,4-D) | mg/kg                             | -                  | -                 | 0.044 U  |
| <b>Pesticides</b>                      |                                   |                    |                   |          |
| 4,4'-DDD                               | mg/kg                             | -                  | -                 | 0.0091 U |
| 4,4'-DDE                               | mg/kg                             | -                  | -                 | 0.0091 U |
| 4,4'-DDT                               | mg/kg                             | -                  | -                 | 0.0091 U |
| Aldrin                                 | mg/kg                             | 0.41               | 1                 | 0.0091 U |
| alpha-BHC                              | mg/kg                             | -                  | -                 | 0.0091 U |
| alpha-Chlordane                        | mg/kg                             | -                  | -                 | 0.017    |
| beta-BHC                               | mg/kg                             | -                  | -                 | 0.0091 U |
| delta-BHC                              | mg/kg                             | -                  | -                 | 0.0091 U |
| Dieldrin                               | mg/kg                             | 0.42               | 1.1               | 0.0091 U |
| Endosulfan I                           | mg/kg                             | -                  | -                 | 0.0091 U |
| Endosulfan II                          | mg/kg                             | -                  | -                 | 0.0091 U |
| Endosulfan sulfate                     | mg/kg                             | -                  | -                 | 0.0091 U |
| Endrin                                 | mg/kg                             | 25                 | 180               | 0.0091 U |
| Endrin aldehyde                        | mg/kg                             | -                  | -                 | 0.0091 U |
| Endrin ketone                          | mg/kg                             | -                  | -                 | 0.0091 U |
| gamma-BHC (lindane)                    | mg/kg                             | -                  | -                 | 0.0091 U |
| gamma-Chlordane                        | mg/kg                             | -                  | -                 | 0.017 P  |
| Heptachlor                             | mg/kg                             | 1.5                | 3.8               | 0.0091 U |
| Heptachlor epoxide                     | mg/kg                             | 0.74               | 1.9               | 0.0091 U |
| Methoxychlor                           | mg/kg                             | 430                | 3100              | 0.036 U  |
| Toxaphene                              | mg/kg                             | 6.2                | 16                | 0.44 U   |
| <b>PCBs</b>                            |                                   |                    |                   |          |
| Aroclor-1016 (PCB-1016)                | mg/kg                             | -                  | -                 | 0.018 U  |
| Aroclor-1221 (PCB-1221)                | mg/kg                             | -                  | -                 | 0.018 U  |
| Aroclor-1232 (PCB-1232)                | mg/kg                             | -                  | -                 | 0.018 U  |
| Aroclor-1242 (PCB-1242)                | mg/kg                             | -                  | -                 | 0.018 U  |
| Aroclor-1248 (PCB-1248)                | mg/kg                             | -                  | -                 | 0.018 U  |

SOIL ANALYTICAL RESULTS SUMMARY  
HIMCO DUMP  
ELKHART, INDIANA

Page 4 of 4

Sample Location:

Sample ID:

Sample Date:

*Topsoil*

SO-092313-EB-001

9/23/2013

| Parameters               | Units | IDEM 2012 - Direct Contact |            |         |
|--------------------------|-------|----------------------------|------------|---------|
|                          |       | Residential                | Industrial |         |
| Aroclor-1254 (PCB-1254)  | mg/kg | -                          | -          | 0.018 U |
| Aroclor-1260 (PCB-1260)  | mg/kg | -                          | -          | 0.018 U |
| <b>General Chemistry</b> |       |                            |            |         |
| Cyanide (total)          | mg/kg | -                          | -          | 0.55 U  |
| Percent solids, vol.     | %     | -                          | -          | 91.6    |

Notes

U - Not detected at the associated reporting limit

## **Appendix D**

### **Waste Manifest**



**CONESTOGA-ROVERS  
& ASSOCIATES**  
Waste Services

14496 Sheldon Road, Suite 200

Plymouth, MI 48170

Telephone: (734) 453-5123

Fax: (734) 453-5201

www.CRAworld.com

## MEMORANDUM

TO: Don Osterhout

REF. NO.: 082098

FROM: Dave Canfield <sup>3/4</sup>

DATE: 12-02-13

C.C.: E-filing

RE: Non-Hazardous Soil Roll-off Disposal Event - 11/13/13

This summary is for:

☒ Waste Pick-up/ Disposal

☐ Price Quote/ Estimate

### GENERATOR/ SITE INFORMATION

Name: Himco Site Trust

Location: Intersection of County Road 10 &  
John Weaver Parkway  
Elkhart, Indiana 46514

### DISPOSAL COST INFORMATION

Total Transportation & Disposal: \$3,015.58

Date Invoice Approved: 12/2/13

### SHIPPING INFORMATION

Disposal Vendor: Republic Services

Transportation Vendor: Republic Services

Manifest No: 2013-002 thru -004

Ship Date: 11/13/13

Manifest Received Date: 11/26/13

### DISPOSAL FACILITY INFORMATION

Facility: County Line Landfill

Location: Argos, IN Received Date: 11/13/13 & 11/14/13

### WASTESTREAM INFORMATION

Wastestream Names:

Vendor Approval No:

Non-Haz Contaminated Soil

4714 13 19443

WSG Tracking No: 082098-01-WSG-111313-001

### ATTACHMENTS

Waste Manifest/Scale Tickets



Vendor Profile Form



Analytical Data



Agency Agreement



Purchase Order



Invoice



Other:



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is **NOT** asbestos waste, complete Sections I, II and III

720588  
18.77

## I. GENERATOR (Generator completes Ia-s)

|  |              |   |                           |                      |                   |
|--|--------------|---|---------------------------|----------------------|-------------------|
| a. Generator's US EPA ID Number NA   |              | b. Manifest Document Number 2013-002                                      |                           | c. Page 1 of 1       |                   |
| d. Generator's Information:<br>Himco Site Trust (Bayer HealthCare LLC)<br>430 S. Beiger Street<br>Mishawaka, IN 46544<br>f. Phone: 574-257-3688<br>g. Contact: Tom Lenz<br>h. County: Elkhart  |              | e. Billing Information:<br>Billed & Serviced by RSG Hauling - Elkhart, IN |                           |                      |                   |
| Generator site location (if different):<br>i. Site Location: Intersection of County Road 10 & John Weaver Parkway<br>Elkhart, IN 46514   |              | j. Phone No:  |                           |                      |                   |
| k. Waste Profile #   | l. Exp. Date | m. Waste Shipping Name and Description                                    | n. Containers<br>No. Type | o. Total<br>Quantity | p. Unit<br>Wt/Vol |
| 4714 13 19443  | 05/01/2014   | Non-Haz Contaminated Soil   | 1 R/O                     | 26                   |                   |
| GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. |              |   |                           |                      |                   |
| X Thomas M. Lenz   |              | X Thomas M. Lenz  |                           | 11-13-2013           |                   |
| q. Generator Authorized Agent Name (Print)   |              | r. Signature  |                           | s. Date              |                   |

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

|  |                  |          |
|--|------------------|----------|
| a. Transporter's Name and Address:<br>Republic Services - Allied Waste Elkhart, IN<br>57820 Charlotte Avenue<br>Elkhart, IN 46517<br>Phone: 574-232-6000 |                  |          |
| c. Driver Name (Print)   | d. Signature     | e. Date  |
| William Heath  | William L. Heath | 11/13/13 |

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

|  |   |                                  |
|--|---|----------------------------------|
| a. Disposal Facility and Site Address:<br>#4714 - County Line Landfill (Republic Svc)<br>7922 N Old US Hwy 31<br>Argos, IN 46501<br>b. Phone: 574-224-6483 | c. US EPA Number - N/A<br>IDEM Approval<br>Number - 25-03 | d. Discrepancy Indication Space: |
| I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.                       |   |                                  |
| e. Name of Authorized Agent (Print)  | f. Signature  | g. Date                          |
| Jim Paschke  | Jim Paschke   | 11/14/2013                       |

## IV. ASBESTOS (Generator completes IVa-f and Operator completes IVg-h)

|  |  |  |  |
|--|--|--|--|
| a. Operator's Name and Address: Bob Smith<br><b>THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)</b>  |  | c. Responsible Agency Name and Address<br><b>THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)</b> |  |
| b. Phone   |  | d. Phone   |  |
| e. Special Handling Instructions and Additional Information:<br>f. Phone: <input type="checkbox"/> Non-Flammable <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Toxic <input type="checkbox"/> Other   |  | g. Operator's Name and Title (Print)   |  |
| OPERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, signed and sealed and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. |  | h. Signature   |  |
| i. Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both  |  | j. Date  |  |

White - Landfill Copy  
Green - Generator Return Copy  
Blue - Transporter Copy  
Yellow - Generator Initial Copy

|  |   |
|--|---|
| SITE   |   |
| <b>COUNTY LINE LANDFILL</b>  |   |
| CUSTOMER   | 7922 N OLD US HWY 31<br>ARGOS, IN 46501<br>574-223-9610 |
| 002149<br>BFI-ELKHART - 271<br>57820 CHARLOTTE AVE.<br>ELKHART, IN 46517 |   |

|                |                   |                   |
|----------------|-------------------|-------------------|
| SITE           | TICKET #          | CELL              |
| WEIGHMASTER    |                   |                   |
| DATE/TIME IN   | INVOICE           | DATE/TIME OUT     |
| INBOUND        | INBOUND           | 14 930584         |
| VEHICLE        |                   | CONTAINER         |
|                |                   | kc00028           |
| REFERENCE      | November 14, 2013 | Time In: 7:22 am  |
| BILL OF LADING | BFI3015           | Time Out: 7:45 am |

47141319443  
11/11/2013 to 5/1/2014

| QTY   | UNIT | DESCRIPTION  | Scale In               | GROSS WEIGHT | NET WEIGHT | TAX 75  | 000 TOTAL |
|-------|------|--------------|------------------------|--------------|------------|---------|-----------|
|       |      |              | Scale Out              | TARE         | WEIGHT     | 37      | 460       |
|       |      |              |                        | NET          | WEIGHT     | 37      | 540       |
|       |      |              |                        | Tracking Qty |            |         | 0         |
| 18.77 | TN   | SW-CONT SOIL | St Joseph County, 100% |              |            |         |           |
|       |      |              |                        |              |            | Total   |           |
|       |      |              |                        |              |            | Change  |           |
|       |      |              |                        |              |            | Check # |           |

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

*[Signature]*

|            |
|------------|
| NET AMOUNT |
| TENDERED   |
| CHANGE     |
| CHECKS     |





# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.  
If waste is **NOT** asbestos waste, complete Sections I, II and III.

9305810  
2110

## I. GENERATOR (Generator completes I a-s)

|  |              |   |                           |                   |                   |
|--|--------------|---|---------------------------|-------------------|-------------------|
| a. Generator's US EPA ID Number NA   |              | b. Manifest Document Number 2013-003                                      |                           | c. Page 1 of 1    |                   |
| d. Generator's Information:<br>Himco Site Trust (Bayer HealthCare LLC)<br>430 S. Beiger Street<br>Mishawaka, IN 46544<br>f. Phone: 574-257-3688<br>g. Contact: Tom Lenz<br>h. County: Elkhart  |              | e. Billing Information:<br>Billed & Serviced by RSG Hauling - Elkhart, IN |                           |                   |                   |
| i. Site Location: Intersection of County Road 10 & John Weaver Parkway<br>Elkhart, IN 46514  |              | j. Phone No:  |                           |                   |                   |
| k. Waste Profile #   | l. Exp. Date | m. Waste Shipping Name and Description                                    | n. Containers<br>No. Type | o. Total Quantity | p. Unit<br>Wt/Vol |
| 4714 13 19443  | 05/01/2014   | Non-Haz Contaminated Soil   | 1 R/O                     | 15                | Y                 |
| GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. |              |   |                           |                   |                   |
| X Thomas M. Lenz   |              | X Thomas M. Lenz  |                           | 11-13-2013        |                   |
| q. Generator Authorized Agent Name (Print)   |              | r. Signature  |                           | s. Date           |                   |

## II. TRANSPORTER (Generator completes II a-b and Transporter completes II c-e)

|  |               |          |
|--|---------------|----------|
| a. Transporter's Name and Address:<br>Republic Services - Allied Waste Elkhart, IN<br>57820 Charlotte Avenue<br>Elkhart, IN 46517<br>Phone: 574-232-6000 |               |          |
| c. Driver Name (Print)   | d. Signature  | e. Date  |
| WILLIAM HEATH  | William Heath | 11/13/13 |

## III. DESTINATION (Generator complete III a-c and Destination Site completes III d-g)

|  |  |                                  |
|--|--|----------------------------------|
| a. Disposal Facility and Site Address:<br>#4714 - County Line Landfill (Republic Svc)<br>7922 N Old US Hwy 31<br>Argos, IN 46501<br>b. Phone: 574-224-6488 | c. US EPA Number - N/A<br>IDEM Approval Number - 25-03 | d. Discrepancy Indication Space: |
| I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.                       |  |                                  |
| e. Name of Authorized Agent (Print)  | f. Signature   | g. Date                          |
| Tom Lenz   | Tom Lenz   | 11/14/2013                       |

## IV. ASBESTOS (Generator completes IV a-d and Operator completes IV e-g)

|   |  |   |  |
|---|--|---|--|
| a. Operator's Name and Address: Bob Smith   |  | c. Responsible Agency Name and Address:       |  |
| THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)   |  | THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS) |  |
| b. Phone:   |  | d. Date:                                      |  |
| e. Special Handling Instructions and Additional Information:<br>f. <input type="checkbox"/> Filler <input type="checkbox"/> Non-Filler <input type="checkbox"/> Both <input type="checkbox"/> 5% Asbestos <input type="checkbox"/> 5% Non-Asbestos  |  |   |  |
| OPERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled and stored in proper condition for transport by highway according to applicable international, national and governmental regulations. |  |   |  |
| g. Operator's Name and Title (Print)  |  | h. Signature                                  |  |
| Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.   |  | i. Date                                       |  |

White - Landfill Copy  
Green - Generator Return Copy  
Blue - Transporter Copy  
Yellow - Generator Initial Copy

BITE  
**COUNTY LINE LANDFILL**  
 CUSTOMER 7922 N OLD US HWY 31  
 ARGOS, IN 46501  
 574-223-9610  
 002149  
 BFI-ELKHART - 271  
 57820 CHARLOTTE AVE.  
 ELKHART, IN 46517

|                |                   |                   |
|----------------|-------------------|-------------------|
| SITE           | TICKET #          | CELL              |
| WEIGHMASTER    |                   |                   |
| DATE/TIME IN   | INBOUND           | DATE/TIME OUT     |
| INVOICE        |                   | 14 930590         |
| VEHICLE        |                   | CONTAINER         |
|                |                   | kd00028           |
| REFERENCE      | November 14, 2013 | Time In: 8:01 am  |
| BILL OF LADING | BFI3015           | Time Out: 8:24 am |

47141319443  
11/11/2013 to 5/1/2014

| QTY.  | UNIT | DESCRIPTION  | Scale In               | Scale Out | GROSS WEIGHT | NET WEIGHT | TAX 80/440 | TOTAL |
|-------|------|--------------|------------------------|-----------|--------------|------------|------------|-------|
| 21.10 | TN   | SW-CONT SOIL | St Joseph County, 100% |           |              |            |            |       |
|       |      |              |                        |           | TARE         | 38         | 240        |       |
|       |      |              |                        |           | NET WEIGHT   | 42         | 200        |       |
|       |      |              |                        |           | Tracking Qty |            | 0          |       |
|       |      |              |                        |           | Total        |            |            |       |
|       |      |              |                        |           | Change       |            |            |       |
|       |      |              |                        |           | Check #      |            |            |       |

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

|            |
|------------|
| NET AMOUNT |
| TENDERED   |
| CHANGE     |
| CHECKS     |

SIGNATURE

RS-F042UPR (07/12)

**NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST**

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is **NOT** asbestos waste, complete Sections I, II and III

930539  
11.69

**I. GENERATOR (Generator completes I a-s)**

|  |              |   |                           |                       |                   |
|--|--------------|---|---------------------------|-----------------------|-------------------|
| a. Generator's US EPA ID Number NA   |              | b. Manifest Document Number 2013-004                                      |                           | c. Page 1 of 1        |                   |
| d. Generator's Information:<br>Himco Site Trust (Bayer HealthCare LLC)<br>430 S. Beiger Street<br>Mishawaka, IN 46544<br>f. Phone: 574-257-3688<br>g. Contact: Tom Lenz<br>h. County: Elkhart  |              | e. Billing Information:<br>Billed & Serviced by RSG Hauling - Elkhart, IN |                           |                       |                   |
| i. Site Location: Intersection of County Road 10 & John Weaver Parkway<br>Elkhart, IN 46514  |              | j. Phone No:  |                           |                       |                   |
| k. Waste Profile #   | l. Exp. Date | m. Waste Shipping Name and Description                                    | n. Containers<br>No. Type | o. Total<br>Quantity  | p. Unit<br>Wt/Vol |
| 4714 13 19443  | 05/01/2014   | Non-Haz Contaminated Soil   | 1 R/O                     | 500<br>15             | Y                 |
| GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. |              |   |                           |                       |                   |
| q. Generator Authorized Agent Name (Print)<br>X Thomas M. Lenz   |              | r. Signature<br>X Thomas M. Lenz  |                           | s. Date<br>11-13-2013 |                   |

**II. TRANSPORTER (Generator completes II a-b and Transporter completes II c-e)**

|  |                               |                     |
|--|-------------------------------|---------------------|
| a. Transporter's Name and Address:<br>Republic Services - Allied Waste Elkhart, IN<br>57820 Charlotte Avenue<br>Elkhart, IN 46517<br>Phone: 574-232-6000 |                               |                     |
| c. Driver Name (Print)<br>William Heath  | d. Signature<br>William Heath | e. Date<br>11/13/13 |

**III. DESTINATION (Generator complete III a-c and Destination Site completes III d-g)**

|  |   |                                  |
|--|---|----------------------------------|
| a. Disposal Facility and Site Address:<br>#4714 - County Line Landfill (Republic Svc)<br>7922 N Old US Hwy 31<br>Argos, IN 46501<br>b. Phone: 574-224-6483 | c. US EPA Number - N/A<br>IDEM Approval<br>Number - 25-03 | d. Discrepancy Indication Space: |
| e. Name of Authorized Agent (Print)<br>Tom Lenz  |   |                                  |
| f. Signature<br>Tom Lenz   |   |                                  |
| g. Date<br>11/13/2013  |   |                                  |

**IV. ASBESTOS (Generator completes IV a-f and Operator completes IV g-i)**

|  |  |  |  |
|--|--|--|--|
| a. Operator's Name and Address: Bob Smith  |  | c. Responsible Agency Name and Address:              |  |
| <b>THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)</b>   |  | <b>THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)</b> |  |
| b. Phone:  |  | d. Phone:  |  |
| e. Special Handling Instructions and Additional Information:<br>f. <input type="checkbox"/> Fugate <input type="checkbox"/> Non-Fugate <input type="checkbox"/> Both <input type="checkbox"/> 1% Fugate <input type="checkbox"/> 0% Fugate   |  | g. Operator's Name and Title (Print):                |  |
| OPERATOR'S CERTIFICATION: I hereby declare that the contents of this container have been properly described above by proper shipping name and are classified, packaged, marked, labeled, and stored in proper condition for transport in accordance with applicable international and national governmental regulations. |  | h. Signature:  |  |
| Operator prints the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.   |  | i. Date:   |  |

White - Landfill Copy  
Green - Generator Return Copy  
Blue - Transporter Copy  
Yellow - Generator Initial Copy

COUNTY LINE LANDFILL

CUSTOMER 7922 N OLD US HWY 31  
ARGOS, IN 46501  
574-223-9610

002149  
BFI-ELKHART - 271  
57820 CHARLOTTE AVE.  
ELKHART, IN 46517

47141319443  
11/11/2013 to 5/1/2014

|                   |  |                    |               |           |  |
|-------------------|--|--------------------|---------------|-----------|--|
| SITE              |  | TICKET #           |               | CELL      |  |
| WEIGHMASTER       |  |                    |               |           |  |
| DATE/TIME IN      |  |                    | DATE/TIME OUT |           |  |
| INVOICE           |  | INBOUND            |               | 14 930539 |  |
| VEHICLE           |  | CONTAINER          |               |           |  |
| REFERENCE         |  | KC00028            |               |           |  |
| November 13, 2013 |  | Time In: 11:48 am  |               |           |  |
| BILL OF LADING    |  |                    |               |           |  |
| BEI3015           |  | Time Out: 12:10 pm |               |           |  |

[illegible]

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

**SIGNATURE**

|            |
|------------|
| NET AMOUNT |
| TENDERED   |
| CHANGE     |
| CHECK      |

**SPECIAL WASTE PROFILE**

Page 1 of 2

Requested Disposal Facility: 4714 County Line LF IN

Waste Profile #

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

**I. Generator Information**

Sales Rep #:

|   |  |                            |            |
|---|--|----------------------------|------------|
| Generator Name: Himco Site Trust  |  |                            |            |
| Generator Site Address: Intersection of County Rd. 10 & John Weaver Parkway   |  |                            |            |
| City: Elkhart   | County: Elkhart                            | State: Indiana             | Zip: 46514 |
| State ID/Reg No:  | State Approval/Waste Code: (if applicable) |                            | NAICS #:   |
| Generator Mailing Address (if different): <input checked="" type="checkbox"/> Bayer HealthCare LLC, 430 S. Beiger St. |  |                            |            |
| City: Mishawaka   | County: St. Joseph                         | State: Indiana             | Zip: 46544 |
| Generator Contact Name: Tom Lenz  |  | Email: tom.lenz@bayer.com  |            |
| Phone Number: (574) 257-3688  | Ext:                                       | Fax Number: (574) 256-3580 |            |

**II. Billing Information**

|  |           |                            |                       |
|--|-----------|----------------------------|-----------------------|
| Bill To: Conestoga-Rovers & Associates, Inc. |           | Contact Name: Robin Betke  |                       |
| Billing Address: 200 W. Allegan St.          |           | Email: rbetke@craworld.com |                       |
| City: Plainwell                              | State: MI | Zip: 49080                 | Phone: (269) 685-5181 |

**III. Waste Stream Information**

|  |   |
|--|---|
| Name of Waste: Non-Hazardous Contaminated Soil   |   |
| Process Generating Waste:<br>Non-Hazardous soil containing C&D and common household waste excavated during installation of a passive ventilation trench. |   |
| Type of Waste:   | <input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE                                 |
| Physical State:  | <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID |
| Method of Shipment:  | <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:        |
| Estimated Annual Volume:   | 40 Cubic Yards  |
| Frequency:   | <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING   |
| Disposal Consideration:  | <input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION                  |

**IV. Representative Sample Certification**☐ NO SAMPLE TAKEN

|  |  |
|--|--|
| Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules? | <input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO |
| Type of Sample: <input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE  |  |
| Sample Date: 10/22/2013  |  |
| Sample ID Numbers: S-039611-102213-DC-001  |  |



Waste Profile #

**V. Physical Characteristics of Waste**

| Characteristic Components   | % by Weight (range) |  |          |     |             |
|-----------------------------|---------------------|--|----------|-----|-------------|
| 1. Soil                     | 85-100              |  |          |     |             |
| 2. Brick                    | 0-5                 |  |          |     |             |
| 3. Concrete                 | 0-5                 |  |          |     |             |
| 4. General Household Debris | 0-5                 |  |          |     |             |
| 5.                          |                     |  |          |     |             |
| Color                       | Odor (describe)     | Does Waste Contain Free Liquids?                                       | % Solids | pH: | Flash Point |
| Black                       | Mild (organic)      | <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO | 100      | NA  | NA °F       |

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

|  |  |
|--|--|
| Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?   | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Is this waste a reactive or heat generating waste?   | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Does the waste contain sulfur or sulfur by-products?   | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |
| Is this waste generated at a Federal Superfund Clean Up Site?  | <input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No |
| Is this waste from a TSD facility, TSD like facility or consolidator?  | <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No |

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Thomas M. Lenz, Senior HSE Specialist

Authorized Representative Name And Title (Type or Print)

Authorized Representative Signature

Bayer HealthCare LLC

Company Name

11/04/2013

Date

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

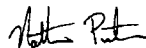
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Tel: (330)497-9396

TestAmerica Job ID: 240-30495-1  
Client Project/Site: 39611, HIMCO

For:  
Conestoga-Rovers & Associates, Inc.  
14496 Sheldon Road, Suite 200  
Plymouth, Michigan 48170

Attn: chemdet Chemistry Data Mail Box



Authorized for release by:

10/31/2013 2:51:14 PM

Nathan Pietras, Project Manager II  
(330)966-8296

nathan.pietras@testamericainc.com

Designee for

Denise Heckler, Project Manager II  
(330)966-9477

denise.heckler@testamericainc.com

### LINKS

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results through

**TotalAccess**

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The  
Expert**

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Job ID: 240-30495-1

Laboratory: TestAmerica Canton

### Narrative

## CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 39611, HIMCO

Report Number: 240-30495-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 10/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

### TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 10/23/2013 and analyzed on 10/25/2013.

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: S-039611-102213-DC-001. Elevated reporting limits (RLs) are provided.

Sample S-039611-102213-DC-001 (240-30495-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

### TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Job ID: 240-30495-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

EPA SW-846 Methods 1311/8270C. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analysis.

All quality control parameters were within the acceptance limits.

#### TCLP CHLORINATED PESTICIDES

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/8081A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/28/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

#### POLYCHLORINATED BIPHENYLS (PCBS)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/24/2013 and analyzed on 10/27/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Tetrachloro-m-xylene failed the surrogate recovery criteria high for MB 240-106885/12-A.

Aroclor-1016 and Aroclor-1260 exceeded the RPD limit for the MSD of sample S-039611-102213-DC-001MSD (240-30495-1) in batch 240-107283.

Method(s) 8082: The following sample(s) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-039611-102213-DC-001. Lot # S65830

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

#### TCLP CHLORINATED HERBICIDES

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/8151A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/28/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

#### TCLP METALS (ICP)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

Barium, Chromium and Selenium were detected in method blank LB 240-106838/1-D at levels that were above the method detection limit

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

---

### Job ID: 240-30495-1 (Continued)

---

#### Laboratory: TestAmerica Canton (Continued)

but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

Barium was detected in method blank MB 240-106937/2-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

#### TCLP MERCURY

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

#### PERCENT SOLIDS

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 10/24/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| X         | Surrogate is outside control limits  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F         | MS/MSD Recovery and/or RPD exceeds the control limits  |

#### Metals

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B         | Compound was found in the blank and sample.  |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

## Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

| Lab Sample ID | Client Sample ID       | Matrix | Collected      | Received       |
|---------------|------------------------|--------|----------------|----------------|
| 240-30495-1   | S-039611-102213-DC-001 | Solid  | 10/22/13 16:00 | 10/23/13 07:50 |

## Detection Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

| Analyte            | Result | Qualifier | RL    | MDL     | Unit | Dil | Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-------|---------|------|-----|-----|---|--------|-----------|
| 3 & 4 Methylphenol | 0.0018 | J         | 0.040 | 0.00080 | mg/L | 1   |     |   | 8270C  | TCLP      |
| Arsenic            | 0.0071 | J         | 0.50  | 0.0032  | mg/L | 1   |     |   | 6010B  | TCLP      |
| Barium             | 0.16   | J B       | 10    | 0.00067 | mg/L | 1   |     |   | 6010B  | TCLP      |
| Chromium           | 0.0042 | J B       | 0.50  | 0.0022  | mg/L | 1   |     |   | 6010B  | TCLP      |
| Lead               | 0.0047 | J         | 0.50  | 0.0019  | mg/L | 1   |     |   | 6010B  | TCLP      |
| Selenium           | 0.0054 | J B       | 0.25  | 0.0041  | mg/L | 1   |     |   | 6010B  | TCLP      |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

| Method   | Method Description                                     | Protocol | Laboratory |
|----------|--|----------|------------|
| 8260B    | Volatile Organic Compounds (GC/MS)                     | SW846    | TAL CAN    |
| 8270C    | Semivolatile Organic Compounds (GC/MS)                 | SW846    | TAL CAN    |
| 8081A    | Organochlorine Pesticides (GC)                         | SW846    | TAL CAN    |
| 8082     | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CAN    |
| 8151A    | Herbicides (GC)  | SW846    | TAL CAN    |
| 6010B    | Metals (ICP)   | SW846    | TAL CAN    |
| 7470A    | Mercury (CVAA)   | SW846    | TAL CAN    |
| Moisture | Percent Moisture                                       | EPA      | TAL CAN    |

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Date Collected: 10/22/13 16:00

Matrix: Solid

Date Received: 10/23/13 07:50

| Analyte              | Result | Qualifier | RL    | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene   | ND     |           | 0.050 | 0.019 | mg/L |   |          | 10/25/13 01:18 | 2       |
| 1,2-Dichloroethane   | ND     |           | 0.050 | 0.022 | mg/L |   |          | 10/25/13 01:18 | 2       |
| 2-Butanone (MEK)     | ND     |           | 0.50  | 0.057 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Benzene              | ND     |           | 0.050 | 0.013 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Carbon tetrachloride | ND     |           | 0.050 | 0.013 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Chlorobenzene        | ND     |           | 0.050 | 0.015 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Chloroform           | ND     |           | 0.050 | 0.016 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Tetrachloroethene    | ND     |           | 0.050 | 0.029 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Trichloroethene      | ND     |           | 0.050 | 0.017 | mg/L |   |          | 10/25/13 01:18 | 2       |
| Vinyl chloride       | ND     |           | 0.050 | 0.022 | mg/L |   |          | 10/25/13 01:18 | 2       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 86        |           | 80 - 121 |          | 10/25/13 01:18 | 2       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 70 - 124 |          | 10/25/13 01:18 | 2       |
| Toluene-d8 (Surr)            | 102       |           | 90 - 115 |          | 10/25/13 01:18 | 2       |
| Dibromofluoromethane (Surr)  | 101       |           | 84 - 128 |          | 10/25/13 01:18 | 2       |

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# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

| Analyte               | Result | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|--------|----------|------|---|----------------|----------------|---------|
| 1,4-Dichlorobenzene   | ND     |           | 0.0040 | 0.00034  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2,4,5-Trichlorophenol | ND     |           | 0.020  | 0.00030  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2,4,6-Trichlorophenol | ND     |           | 0.020  | 0.00024  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2,4-Dinitrotoluene    | ND     |           | 0.020  | 0.00025  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Hexachlorobenzene     | ND     |           | 0.020  | 0.000085 | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Hexachlorobutadiene   | ND     |           | 0.020  | 0.00027  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Hexachloroethane      | ND     |           | 0.020  | 0.00019  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 3 & 4 Methylphenol    | 0.0018 | J         | 0.040  | 0.00080  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2-Methylphenol        | ND     |           | 0.0040 | 0.00017  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Nitrobenzene          | ND     |           | 0.0040 | 0.000040 | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Pentachlorophenol     | ND     |           | 0.040  | 0.00027  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Pyridine              | ND     |           | 0.020  | 0.00035  | mg/L |   | 10/24/13 10:34 | 10/25/13 13:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr)     | 51        |           | 30 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2-Fluorophenol (Surr)       | 52        |           | 20 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| 2,4,6-Tribromophenol (Surr) | 49        |           | 23 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Nitrobenzene-d5 (Surr)      | 58        |           | 28 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Phenol-d5 (Surr)            | 49        |           | 21 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |
| Terphenyl-d14 (Surr)        | 58        |           | 48 - 110 | 10/24/13 10:34 | 10/25/13 13:56 | 1       |

TestAmerica Canton

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

| Analyte                | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Chlordane (technical)  | ND        |           | 0.0050   | 0.000079 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Endrin                 | ND        |           | 0.00050  | 0.000026 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Heptachlor             | ND        |           | 0.00050  | 0.000019 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Heptachlor epoxide     | ND        |           | 0.00050  | 0.000017 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| gamma-BHC (Lindane)    | ND        |           | 0.00050  | 0.000015 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Methoxychlor           | ND        |           | 0.0010   | 0.000077 | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Toxaphene              | ND        |           | 0.020    | 0.00077  | mg/L |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |          |      |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene   | 82        |           | 40 - 129 |          |      |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |
| DCB Decachlorobiphenyl | 63        |           | 40 - 152 |          |      |   | 10/24/13 10:40 | 10/28/13 11:29 | 1       |

TestAmerica Canton

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

Percent Solids: 33.6

| Analyte      | Result | Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Aroclor-1016 | ND     |           | 99 | 63  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1221 | ND     |           | 99 | 48  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1232 | ND     |           | 99 | 42  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1242 | ND     |           | 99 | 39  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1248 | ND     |           | 99 | 51  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1254 | ND     |           | 99 | 51  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| Aroclor-1260 | ND     |           | 99 | 51  | ug/Kg | ⊛ | 10/24/13 07:14 | 10/27/13 21:29 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 51        |           | 29 - 151 | 10/24/13 07:14 | 10/27/13 21:29 | 1       |
| DCB Decachlorobiphenyl | 44        |           | 14 - 163 | 10/24/13 07:14 | 10/27/13 21:29 | 1       |

TestAmerica Canton

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Method: 8151A - Herbicides (GC) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

| Analyte                       | Result    | Qualifier | RL       | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|---------|------|---|----------------|----------------|---------|
| 2,4-D                         | ND        |           | 0.0020   | 0.00021 | mg/L |   | 10/24/13 10:42 | 10/28/13 22:21 | 1       |
| Silvex (2,4,5-TP)             | ND        |           | 0.00050  | 0.00010 | mg/L |   | 10/24/13 10:42 | 10/28/13 22:21 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |         |      |   | Prepared       | Analyzed       | Dil Fac |
| 2,4-Dichlorophenylacetic acid | 65        |           | 56 - 120 |         |      |   | 10/24/13 10:42 | 10/28/13 22:21 | 1       |

TestAmerica Canton

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

| Analyte  | Result | Qualifier | RL   | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|---------|------|---|----------------|----------------|---------|
| Arsenic  | 0.0071 | J         | 0.50 | 0.0032  | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Barium   | 0.16   | J B       | 10   | 0.00067 | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Cadmium  | ND     |           | 0.10 | 0.00066 | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Chromium | 0.0042 | J B       | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Lead     | 0.0047 | J         | 0.50 | 0.0019  | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Selenium | 0.0054 | J B       | 0.25 | 0.0041  | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |
| Silver   | ND     |           | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:56 | 10/25/13 17:21 | 1       |

TestAmerica Canton

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

| Analyte | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.0020 | 0.00012 | mg/L |   | 10/24/13 15:15 | 10/25/13 18:59 | 1       |

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### GC/MS VOA

#### Leach Batch: 106834

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 1311   |            |
| LB 240-106834/1-A MB | Method Blank           | TCLP      | Solid  | 1311   |            |

#### Analysis Batch: 107028

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 8260B  | 106834     |
| LB 240-106834/1-A MB | Method Blank           | TCLP      | Solid  | 8260B  | 106834     |
| LCS 240-107028/18    | Lab Control Sample     | Total/NA  | Solid  | 8260B  |            |

### GC/MS Semi VOA

#### Leach Batch: 106838

| Lab Sample ID | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1   | S-039611-102213-DC-001 | TCLP      | Solid  | 1311   |            |

#### Prep Batch: 106953

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 3510C  | 106838     |
| LCS 240-106953/5-A | Lab Control Sample     | Total/NA  | Solid  | 3510C  |            |
| MB 240-106953/4-A  | Method Blank           | Total/NA  | Solid  | 3510C  |            |

#### Analysis Batch: 107070

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 8270C  | 106953     |
| LCS 240-106953/5-A | Lab Control Sample     | Total/NA  | Solid  | 8270C  | 106953     |
| MB 240-106953/4-A  | Method Blank           | Total/NA  | Solid  | 8270C  | 106953     |

### GC Semi VOA

#### Leach Batch: 106838

| Lab Sample ID  | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1    | S-039611-102213-DC-001 | TCLP      | Solid  | 1311   |            |
| 240-30495-1 MS | S-039611-102213-DC-001 | TCLP      | Solid  | 1311   |            |

#### Prep Batch: 106885

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1         | S-039611-102213-DC-001 | Total/NA  | Solid  | 3540C  |            |
| 240-30495-1 MS      | S-039611-102213-DC-001 | Total/NA  | Solid  | 3540C  |            |
| 240-30495-1 MSD     | S-039611-102213-DC-001 | Total/NA  | Solid  | 3540C  |            |
| LCS 240-106885/13-A | Lab Control Sample     | Total/NA  | Solid  | 3540C  |            |
| MB 240-106885/12-A  | Method Blank           | Total/NA  | Solid  | 3540C  |            |

#### Prep Batch: 106957

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 3510C  | 106838     |
| 240-30495-1 MS     | S-039611-102213-DC-001 | TCLP      | Solid  | 3510C  | 106838     |
| LCS 240-106957/4-A | Lab Control Sample     | Total/NA  | Solid  | 3510C  |            |
| MB 240-106957/3-A  | Method Blank           | Total/NA  | Solid  | 3510C  |            |

TestAmerica Canton

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### GC Semi VOA (Continued)

#### Prep Batch: 106958

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 8151A  | 106838     |
| 240-30495-1 MS     | S-039611-102213-DC-001 | TCLP      | Solid  | 8151A  | 106838     |
| LCS 240-106958/4-A | Lab Control Sample     | Total/NA  | Solid  | 8151A  |            |
| MB 240-106958/3-A  | Method Blank           | Total/NA  | Solid  | 8151A  |            |

#### Analysis Batch: 107283

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1         | S-039611-102213-DC-001 | Total/NA  | Solid  | 8082   | 106885     |
| 240-30495-1 MS      | S-039611-102213-DC-001 | Total/NA  | Solid  | 8082   | 106885     |
| 240-30495-1 MSD     | S-039611-102213-DC-001 | Total/NA  | Solid  | 8082   | 106885     |
| LCS 240-106885/13-A | Lab Control Sample     | Total/NA  | Solid  | 8082   | 106885     |
| MB 240-106885/12-A  | Method Blank           | Total/NA  | Solid  | 8082   | 106885     |

#### Analysis Batch: 107302

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 8081A  | 106957     |
| 240-30495-1 MS     | S-039611-102213-DC-001 | TCLP      | Solid  | 8081A  | 106957     |
| LCS 240-106957/4-A | Lab Control Sample     | Total/NA  | Solid  | 8081A  | 106957     |
| MB 240-106957/3-A  | Method Blank           | Total/NA  | Solid  | 8081A  | 106957     |

#### Analysis Batch: 107392

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1        | S-039611-102213-DC-001 | TCLP      | Solid  | 8151A  | 106958     |
| 240-30495-1 MS     | S-039611-102213-DC-001 | TCLP      | Solid  | 8151A  | 106958     |
| LCS 240-106958/4-A | Lab Control Sample     | Total/NA  | Solid  | 8151A  | 106958     |
| MB 240-106958/3-A  | Method Blank           | Total/NA  | Solid  | 8151A  | 106958     |

### Metals

#### Leach Batch: 106838

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 1311   |            |
| LB 240-106838/1-D LB | Method Blank           | TCLP      | Solid  | 1311   |            |
| LB 240-106838/1-E LB | Method Blank           | TCLP      | Solid  | 1311   |            |

#### Prep Batch: 106937

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 3010A  | 106838     |
| LB 240-106838/1-D LB | Method Blank           | TCLP      | Solid  | 3010A  | 106838     |
| LCS 240-106937/3-A   | Lab Control Sample     | Total/NA  | Solid  | 3010A  |            |
| MB 240-106937/2-A    | Method Blank           | Total/NA  | Solid  | 3010A  |            |

#### Prep Batch: 106938

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 7470A  | 106838     |
| LB 240-106838/1-E LB | Method Blank           | TCLP      | Solid  | 7470A  | 106838     |
| LCS 240-106938/3-A   | Lab Control Sample     | Total/NA  | Solid  | 7470A  |            |
| MB 240-106938/2-A    | Method Blank           | Total/NA  | Solid  | 7470A  |            |

TestAmerica Canton



## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Metals (Continued)

#### Analysis Batch: 107242

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 6010B  | 106937     |
| LB 240-106838/1-D LB | Method Blank           | TCLP      | Solid  | 6010B  | 106937     |
| LCS 240-106937/3-A   | Lab Control Sample     | Total/NA  | Solid  | 6010B  | 106937     |
| MB 240-106937/2-A    | Method Blank           | Total/NA  | Solid  | 6010B  | 106937     |

#### Analysis Batch: 107332

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 240-30495-1          | S-039611-102213-DC-001 | TCLP      | Solid  | 7470A  | 106938     |
| LB 240-106838/1-E LB | Method Blank           | TCLP      | Solid  | 7470A  | 106938     |
| LCS 240-106938/3-A   | Lab Control Sample     | Total/NA  | Solid  | 7470A  | 106938     |
| MB 240-106938/2-A    | Method Blank           | Total/NA  | Solid  | 7470A  | 106938     |

### General Chemistry

#### Analysis Batch: 106884

| Lab Sample ID  | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------|------------------------|-----------|--------|----------|------------|
| 240-30495-1    | S-039611-102213-DC-001 | Total/NA  | Solid  | Moisture |            |
| 240-30495-1 DU | S-039611-102213-DC-001 | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-107028/18

Matrix: Solid

Analysis Batch: 107028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethene   | 1.00        | 0.959      |               | mg/L |   | 96   | 71 - 133     |
| 1,2-Dichloroethane   | 1.00        | 0.885      |               | mg/L |   | 88   | 81 - 114     |
| 2-Butanone (MEK)     | 2.00        | 1.75       |               | mg/L |   | 87   | 49 - 120     |
| Benzene              | 1.00        | 1.00       |               | mg/L |   | 100  | 84 - 120     |
| Carbon tetrachloride | 1.00        | 1.02       |               | mg/L |   | 102  | 54 - 122     |
| Chlorobenzene        | 1.00        | 1.02       |               | mg/L |   | 102  | 86 - 111     |
| Chloroform           | 1.00        | 0.941      |               | mg/L |   | 94   | 87 - 123     |
| Tetrachloroethene    | 1.00        | 1.06       |               | mg/L |   | 106  | 79 - 134     |
| Trichloroethene      | 1.00        | 1.07       |               | mg/L |   | 107  | 78 - 130     |
| Vinyl chloride       | 1.00        | 1.11       |               | mg/L |   | 111  | 56 - 111     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 86            |               | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 103           |               | 70 - 124 |
| Toluene-d8 (Surr)            | 109           |               | 90 - 115 |
| Dibromofluoromethane (Surr)  | 105           |               | 84 - 128 |

Lab Sample ID: LB 240-106834/1-A MB

Matrix: Solid

Analysis Batch: 107028

Client Sample ID: Method Blank

Prep Type: TCLP

| Analyte              | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene   | ND        |              | 0.025 | 0.0095 | mg/L |   |          | 10/25/13 00:05 | 1       |
| 1,2-Dichloroethane   | ND        |              | 0.025 | 0.011  | mg/L |   |          | 10/25/13 00:05 | 1       |
| 2-Butanone (MEK)     | ND        |              | 0.25  | 0.029  | mg/L |   |          | 10/25/13 00:05 | 1       |
| Benzene              | ND        |              | 0.025 | 0.0065 | mg/L |   |          | 10/25/13 00:05 | 1       |
| Carbon tetrachloride | ND        |              | 0.025 | 0.0065 | mg/L |   |          | 10/25/13 00:05 | 1       |
| Chlorobenzene        | ND        |              | 0.025 | 0.0075 | mg/L |   |          | 10/25/13 00:05 | 1       |
| Chloroform           | ND        |              | 0.025 | 0.0080 | mg/L |   |          | 10/25/13 00:05 | 1       |
| Tetrachloroethene    | ND        |              | 0.025 | 0.015  | mg/L |   |          | 10/25/13 00:05 | 1       |
| Trichloroethene      | ND        |              | 0.025 | 0.0085 | mg/L |   |          | 10/25/13 00:05 | 1       |
| Vinyl chloride       | ND        |              | 0.025 | 0.011  | mg/L |   |          | 10/25/13 00:05 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 80 - 121 |          | 10/25/13 00:05 | 1       |
| 4-Bromofluorobenzene (Surr)  | 105          |              | 70 - 124 |          | 10/25/13 00:05 | 1       |
| Toluene-d8 (Surr)            | 108          |              | 90 - 115 |          | 10/25/13 00:05 | 1       |
| Dibromofluoromethane (Surr)  | 105          |              | 84 - 128 |          | 10/25/13 00:05 | 1       |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-106953/4-A

Matrix: Solid

Analysis Batch: 107070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106953

| Analyte             | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| 1,4-Dichlorobenzene | ND        |              | 0.0040 | 0.00034 | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |

TestAmerica Canton

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-106953/4-A

Matrix: Solid

Analysis Batch: 107070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106953

| Analyte               | MB Result | MB Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | ND        |              | 0.020  | 0.00030  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 2,4,6-Trichlorophenol | ND        |              | 0.020  | 0.00024  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 2,4-Dinitrotoluene    | ND        |              | 0.020  | 0.00025  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Hexachlorobenzene     | ND        |              | 0.020  | 0.000085 | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Hexachlorobutadiene   | ND        |              | 0.020  | 0.00027  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Hexachloroethane      | ND        |              | 0.020  | 0.00019  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 3 & 4 Methylphenol    | ND        |              | 0.040  | 0.00080  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 2-Methylphenol        | ND        |              | 0.0040 | 0.00017  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Nitrobenzene          | ND        |              | 0.0040 | 0.000040 | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Pentachlorophenol     | ND        |              | 0.040  | 0.00027  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Pyridine              | ND        |              | 0.020  | 0.00035  | mg/L |   | 10/24/13 10:34 | 10/25/13 12:30 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr)     | 77           |              | 30 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 2-Fluorophenol (Surr)       | 80           |              | 20 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| 2,4,6-Tribromophenol (Surr) | 64           |              | 23 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Nitrobenzene-d5 (Surr)      | 82           |              | 28 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Phenol-d5 (Surr)            | 68           |              | 21 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |
| Terphenyl-d14 (Surr)        | 93           |              | 48 - 110 | 10/24/13 10:34 | 10/25/13 12:30 | 1       |

Lab Sample ID: LCS 240-106953/5-A

Matrix: Solid

Analysis Batch: 107070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106953

| Analyte               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,4-Dichlorobenzene   | 0.0800      | 0.0638     |               | mg/L |   | 80   | 48 - 110     |
| 2,4,5-Trichlorophenol | 0.0800      | 0.0718     |               | mg/L |   | 90   | 51 - 110     |
| 2,4,6-Trichlorophenol | 0.0800      | 0.0699     |               | mg/L |   | 87   | 46 - 110     |
| 2,4-Dinitrotoluene    | 0.0800      | 0.0699     |               | mg/L |   | 87   | 54 - 110     |
| Hexachlorobenzene     | 0.0800      | 0.0679     |               | mg/L |   | 85   | 50 - 110     |
| Hexachlorobutadiene   | 0.0800      | 0.0645     |               | mg/L |   | 81   | 34 - 110     |
| Hexachloroethane      | 0.0800      | 0.0625     |               | mg/L |   | 78   | 41 - 110     |
| 3 & 4 Methylphenol    | 0.0800      | 0.0722     |               | mg/L |   | 90   | 48 - 110     |
| 2-Methylphenol        | 0.0800      | 0.0722     |               | mg/L |   | 90   | 44 - 111     |
| Nitrobenzene          | 0.0800      | 0.0710     |               | mg/L |   | 89   | 40 - 110     |
| Pentachlorophenol     | 0.160       | 0.124      |               | mg/L |   | 77   | 12 - 110     |
| Pyridine              | 0.0800      | 0.0628     |               | mg/L |   | 79   | 30 - 110     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr)     | 88            |               | 30 - 110 |
| 2-Fluorophenol (Surr)       | 87            |               | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 86            |               | 23 - 110 |
| Nitrobenzene-d5 (Surr)      | 94            |               | 28 - 110 |
| Phenol-d5 (Surr)            | 76            |               | 21 - 110 |
| Terphenyl-d14 (Surr)        | 105           |               | 48 - 110 |

TestAmerica Canton

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-106957/3-A

Matrix: Solid

Analysis Batch: 107302

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106957

| Analyte               | Result | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Chlordane (technical) | ND     |           | 0.0050  | 0.000079 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| Endrin                | ND     |           | 0.00050 | 0.000026 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| Heptachlor            | ND     |           | 0.00050 | 0.000019 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| Heptachlor epoxide    | ND     |           | 0.00050 | 0.000017 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| gamma-BHC (Lindane)   | ND     |           | 0.00050 | 0.000015 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| Methoxychlor          | ND     |           | 0.0010  | 0.000077 | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| Toxaphene             | ND     |           | 0.020   | 0.00077  | mg/L |   | 10/24/13 10:40 | 10/28/13 12:09 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 98        |           | 40 - 129 | 10/24/13 10:40 | 10/28/13 12:09 | 1       |
| DCB Decachlorobiphenyl | 106       |           | 40 - 152 | 10/24/13 10:40 | 10/28/13 12:09 | 1       |

Lab Sample ID: LCS 240-106957/4-A

Matrix: Solid

Analysis Batch: 107302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106957

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| Endrin              | 0.00200     | 0.00241    | J             | mg/L |   | 121  | 73 - 146     |
| Heptachlor          | 0.00200     | 0.00214    | J             | mg/L |   | 107  | 60 - 140     |
| Heptachlor epoxide  | 0.00200     | 0.00218    | J             | mg/L |   | 109  | 73 - 158     |
| gamma-BHC (Lindane) | 0.00200     | 0.00202    | J             | mg/L |   | 101  | 63 - 157     |
| Methoxychlor        | 0.00400     | 0.00438    | J             | mg/L |   | 109  | 49 - 160     |

| Surrogate              | %Recovery | Qualifier | Limits   |
|------------------------|-----------|-----------|----------|
| Tetrachloro-m-xylene   | 93        |           | 40 - 129 |
| DCB Decachlorobiphenyl | 103       |           | 40 - 152 |

Lab Sample ID: 240-30495-1 MS

Matrix: Solid

Analysis Batch: 107302

Client Sample ID: S-039611-102213-DC-001

Prep Type: TCLP

Prep Batch: 106957

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Endrin              | ND            |                  | 0.00200     | 0.00183   | J            | mg/L |   | 92   | 47 - 140     |
| Heptachlor          | ND            |                  | 0.00200     | 0.00159   | J            | mg/L |   | 79   | 44 - 129     |
| Heptachlor epoxide  | ND            |                  | 0.00200     | 0.00170   | J            | mg/L |   | 85   | 48 - 146     |
| gamma-BHC (Lindane) | ND            |                  | 0.00200     | 0.00165   | J            | mg/L |   | 82   | 36 - 146     |
| Methoxychlor        | ND            |                  | 0.00400     | 0.00357   | J            | mg/L |   | 89   | 35 - 152     |

| Surrogate              | %Recovery | Qualifier | Limits   |
|------------------------|-----------|-----------|----------|
| Tetrachloro-m-xylene   | 70        |           | 40 - 129 |
| DCB Decachlorobiphenyl | 70        |           | 40 - 152 |

TestAmerica Canton

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-106885/12-A  
Matrix: Solid  
Analysis Batch: 107283

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 106885

| Analyte                | MB Result    | MB Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|-----|-------|---|----------------|----------------|---------|
| Aroclor-1016           | ND           |              | 33       | 21  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1221           | ND           |              | 33       | 16  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1232           | ND           |              | 33       | 14  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1242           | ND           |              | 33       | 13  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1248           | ND           |              | 33       | 17  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1254           | ND           |              | 33       | 17  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Aroclor-1260           | ND           |              | 33       | 17  | ug/Kg |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| Surrogate              | MB %Recovery | MB Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene   | 164          | X            | 29 - 151 |     |       |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |
| DCB Decachlorobiphenyl | 82           |              | 14 - 163 |     |       |   | 10/24/13 07:14 | 10/27/13 20:48 | 1       |

Lab Sample ID: LCS 240-106885/13-A  
Matrix: Solid  
Analysis Batch: 107283

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 106885

| Analyte                | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|---------------|---------------|---------------|-------|---|------|----------|
| Aroclor-1016           | 333           | 278           |               | ug/Kg |   | 84   | 62 - 120 |
| Aroclor-1260           | 333           | 294           |               | ug/Kg |   | 88   | 56 - 122 |
| Surrogate              | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |          |
| Tetrachloro-m-xylene   | 106           |               | 29 - 151      |       |   |      |          |
| DCB Decachlorobiphenyl | 95            |               | 14 - 163      |       |   |      |          |

Lab Sample ID: 240-30495-1 MS  
Matrix: Solid  
Analysis Batch: 107283

Client Sample ID: S-039611-102213-DC-001  
Prep Type: Total/NA  
Prep Batch: 106885

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Aroclor-1016           | ND            |                  | 1010        | 493       |              | ug/Kg | ☼ | 49   | 22 - 157 |
| Aroclor-1260           | ND            |                  | 1010        | 496       |              | ug/Kg | ☼ | 49   | 13 - 161 |
| Surrogate              | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |          |
| Tetrachloro-m-xylene   | 52            |                  | 29 - 151    |           |              |       |   |      |          |
| DCB Decachlorobiphenyl | 53            |                  | 14 - 163    |           |              |       |   |      |          |

Lab Sample ID: 240-30495-1 MSD  
Matrix: Solid  
Analysis Batch: 107283

Client Sample ID: S-039611-102213-DC-001  
Prep Type: Total/NA  
Prep Batch: 106885

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Aroclor-1016           | ND            |                  | 1000        | 311        | F             | ug/Kg | ☼ | 31   | 22 - 157 | 45  | 30    |
| Aroclor-1260           | ND            |                  | 1000        | 291        | F             | ug/Kg | ☼ | 29   | 13 - 161 | 52  | 30    |
| Surrogate              | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |          |     |       |
| Tetrachloro-m-xylene   | 31            |                  | 29 - 151    |            |               |       |   |      |          |     |       |
| DCB Decachlorobiphenyl | 27            |                  | 14 - 163    |            |               |       |   |      |          |     |       |

TestAmerica Canton

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

## Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 240-106958/3-A

Matrix: Solid

Analysis Batch: 107392

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106958

| Analyte                       | MB Result    | MB Qualifier | RL       | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------------|--------------|----------|---------|------|---|----------------|----------------|---------|
| 2,4-D                         | ND           |              | 0.0020   | 0.00021 | mg/L |   | 10/24/13 10:42 | 10/28/13 23:07 | 1       |
| Silvex (2,4,5-TP)             | ND           |              | 0.00050  | 0.00010 | mg/L |   | 10/24/13 10:42 | 10/28/13 23:07 | 1       |
| Surrogate                     | MB %Recovery | MB Qualifier | Limits   |         |      |   | Prepared       | Analyzed       | Dil Fac |
| 2,4-Dichlorophenylacetic acid | 85           |              | 56 - 120 |         |      |   | 10/24/13 10:42 | 10/28/13 23:07 | 1       |

Lab Sample ID: LCS 240-106958/4-A

Matrix: Solid

Analysis Batch: 107392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106958

| Analyte                       | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|---------------|---------------|---------------|------|---|------|--------------|
| 2,4-D                         | 0.0200        | 0.0160        |               | mg/L |   | 80   | 50 - 120     |
| Silvex (2,4,5-TP)             | 0.00500       | 0.00412       |               | mg/L |   | 82   | 45 - 129     |
| Surrogate                     | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 2,4-Dichlorophenylacetic acid | 85            |               | 56 - 120      |      |   |      |              |

Lab Sample ID: 240-30495-1 MS

Matrix: Solid

Analysis Batch: 107392

Client Sample ID: S-039611-102213-DC-001

Prep Type: TCLP

Prep Batch: 106958

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 2,4-D                         | ND            |                  | 0.0200      | 0.0139    |              | mg/L |   | 70   | 44 - 124     |
| Silvex (2,4,5-TP)             | ND            |                  | 0.00500     | 0.00340   |              | mg/L |   | 68   | 35 - 135     |
| Surrogate                     | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |              |
| 2,4-Dichlorophenylacetic acid | 71            |                  | 56 - 120    |           |              |      |   |      |              |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-106937/2-A

Matrix: Solid

Analysis Batch: 107242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106937

| Analyte  | MB Result | MB Qualifier | RL   | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|---------|------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 0.50 | 0.0032  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Barium   | 0.00200   | J            | 10   | 0.00067 | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Cadmium  | ND        |              | 0.10 | 0.00066 | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Chromium | ND        |              | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Lead     | ND        |              | 0.50 | 0.0019  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Selenium | ND        |              | 0.25 | 0.0041  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |
| Silver   | ND        |              | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:49 | 1       |

TestAmerica Canton

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-106937/3-A

Matrix: Solid

Analysis Batch: 107242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106937

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec.    |  |
|----------|-------------|------------|---------------|------|---|------|----------|--|
|          |             |            |               |      |   |      | Limits   |  |
| Arsenic  | 2.00        | 2.16       |               | mg/L |   | 108  | 50 - 150 |  |
| Barium   | 2.00        | 1.99       | J             | mg/L |   | 100  | 50 - 150 |  |
| Cadmium  | 0.0500      | 0.0505     | J             | mg/L |   | 101  | 50 - 150 |  |
| Chromium | 0.200       | 0.210      | J             | mg/L |   | 105  | 50 - 150 |  |
| Lead     | 0.500       | 0.485      | J             | mg/L |   | 97   | 50 - 150 |  |
| Selenium | 2.00        | 2.08       |               | mg/L |   | 104  | 50 - 150 |  |
| Silver   | 0.0500      | 0.0533     | J             | mg/L |   | 107  | 50 - 150 |  |

Lab Sample ID: LB 240-106838/1-D LB

Matrix: Solid

Analysis Batch: 107242

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 106937

| Analyte  | LB LB   |           | RL   | MDL     | Unit | D | Prepared       | Analyzed       | DII Fac |
|----------|---------|-----------|------|---------|------|---|----------------|----------------|---------|
|          | Result  | Qualifier |      |         |      |   |                |                |         |
| Arsenic  | ND      |           | 0.50 | 0.0032  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Barium   | 0.00287 | J         | 10   | 0.00067 | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Cadmium  | ND      |           | 0.10 | 0.00066 | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Chromium | 0.00300 | J         | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Lead     | ND      |           | 0.50 | 0.0019  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Selenium | 0.00551 | J         | 0.25 | 0.0041  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |
| Silver   | ND      |           | 0.50 | 0.0022  | mg/L |   | 10/24/13 09:55 | 10/25/13 16:45 | 1       |

### Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-106938/2-A

Matrix: Solid

Analysis Batch: 107332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106938

| Analyte | MB MB  |           | RL     | MDL     | Unit | D | Prepared       | Analyzed       | DII Fac |
|---------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
|         | Result | Qualifier |        |         |      |   |                |                |         |
| Mercury | ND     |           | 0.0020 | 0.00012 | mg/L |   | 10/24/13 15:15 | 10/25/13 18:51 | 1       |

Lab Sample ID: LCS 240-106938/3-A

Matrix: Solid

Analysis Batch: 107332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106938

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec.    |  |
|---------|-------------|------------|---------------|------|---|------|----------|--|
|         |             |            |               |      |   |      | Limits   |  |
| Mercury | 0.00500     | 0.00460    |               | mg/L |   | 92   | 50 - 150 |  |

Lab Sample ID: LB 240-106838/1-E LB

Matrix: Solid

Analysis Batch: 107332

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 106938

| Analyte | LB LB  |           | RL     | MDL     | Unit | D | Prepared       | Analyzed       | DII Fac |
|---------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
|         | Result | Qualifier |        |         |      |   |                |                |         |
| Mercury | ND     |           | 0.0020 | 0.00012 | mg/L |   | 10/24/13 15:15 | 10/25/13 18:49 | 1       |

TestAmerica Canton

## Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID                        | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|--------------------------------------|--------------------|--|-----------------|-----------------|------------------|
|                                      |                    | 12DCE<br>(80-121)                              | BFB<br>(70-124) | TOL<br>(90-115) | DBFM<br>(84-128) |
| LCS 240-107028/18                    | Lab Control Sample | 86   | 103             | 109             | 105              |
| <b>Surrogate Legend</b>              |                    |  |                 |                 |                  |
| 12DCE = 1,2-Dichloroethane-d4 (Surr) |                    |  |                 |                 |                  |
| BFB = 4-Bromofluorobenzene (Surr)    |                    |  |                 |                 |                  |
| TOL = Toluene-d8 (Surr)              |                    |  |                 |                 |                  |
| DBFM = Dibromofluoromethane (Surr)   |                    |  |                 |                 |                  |

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

| Lab Sample ID                        | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|--------------------------------------|------------------------|--|-----------------|-----------------|------------------|
|                                      |                        | 12DCE<br>(80-121)                              | BFB<br>(70-124) | TOL<br>(90-115) | DBFM<br>(84-128) |
| 240-30495-1                          | S-039611-102213-DC-001 | 86   | 97              | 102             | 101              |
| LB 240-106834/1-A MB                 | Method Blank           | 89   | 105             | 108             | 105              |
| <b>Surrogate Legend</b>              |                        |  |                 |                 |                  |
| 12DCE = 1,2-Dichloroethane-d4 (Surr) |                        |  |                 |                 |                  |
| BFB = 4-Bromofluorobenzene (Surr)    |                        |  |                 |                 |                  |
| TOL = Toluene-d8 (Surr)              |                        |  |                 |                 |                  |
| DBFM = Dibromofluoromethane (Surr)   |                        |  |                 |                 |                  |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID                     | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                 |                 |
|-----------------------------------|--------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                   |                    | FBP<br>(30-110)                                | 2FP<br>(20-110) | TBP<br>(23-110) | NBZ<br>(28-110) | PHL<br>(21-110) | TPH<br>(48-110) |
| LCS 240-106953/5-A                | Lab Control Sample | 88   | 87              | 86              | 94              | 76              | 105             |
| MB 240-106953/4-A                 | Method Blank       | 77   | 80              | 64              | 82              | 68              | 93              |
| <b>Surrogate Legend</b>           |                    |  |                 |                 |                 |                 |                 |
| FBP = 2-Fluorobiphenyl (Surr)     |                    |  |                 |                 |                 |                 |                 |
| 2FP = 2-Fluorophenol (Surr)       |                    |  |                 |                 |                 |                 |                 |
| TBP = 2,4,6-Tribromophenol (Surr) |                    |  |                 |                 |                 |                 |                 |
| NBZ = Nitrobenzene-d5 (Surr)      |                    |  |                 |                 |                 |                 |                 |
| PHL = Phenol-d5 (Surr)            |                    |  |                 |                 |                 |                 |                 |
| TPH = Terphenyl-d14 (Surr)        |                    |  |                 |                 |                 |                 |                 |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

| Lab Sample ID                 | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                 |                 |
|-------------------------------|------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|
|                               |                        | FBP<br>(30-110)                                | 2FP<br>(20-110) | TBP<br>(23-110) | NBZ<br>(28-110) | PHL<br>(21-110) | TPH<br>(48-110) |
| 240-30495-1                   | S-039611-102213-DC-001 | 51   | 52              | 49              | 58              | 49              | 58              |
| <b>Surrogate Legend</b>       |                        |  |                 |                 |                 |                 |                 |
| FBP = 2-Fluorobiphenyl (Surr) |                        |  |                 |                 |                 |                 |                 |
| 2FP = 2-Fluorophenol (Surr)   |                        |  |                 |                 |                 |                 |                 |

TestAmerica Canton



## Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.

TestAmerica Job ID: 240-30495-1

Project/Site: 39611, HIMCO

TBP = 2,4,6-Tribromophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

### Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|--------------------|--------------------|--|------------------|------------------|------------------|
|                    |                    | TCX1<br>(40-129)                               | TCX2<br>(40-129) | DCB1<br>(40-152) | DCB2<br>(40-152) |
| LCS 240-106957/4-A | Lab Control Sample | 109  | 93               | 118              | 103              |
| MB 240-106957/3-A  | Method Blank       | 109  | 98               | 108              | 106              |

**Surrogate Legend**  
 TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

### Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: TCLP

| Lab Sample ID  | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|----------------|------------------------|--|------------------|------------------|------------------|
|                |                        | TCX1<br>(40-129)                               | TCX2<br>(40-129) | DCB1<br>(40-152) | DCB2<br>(40-152) |
| 240-30495-1    | S-039611-102213-DC-001 | 82   | 82               | 66               | 63               |
| 240-30495-1 MS | S-039611-102213-DC-001 | 89   | 70               | 76               | 70               |

**Surrogate Legend**  
 TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                  |
|---------------------|------------------------|--|------------------|
|                     |                        | TCX2<br>(29-151)                               | DCB2<br>(14-163) |
| 240-30495-1         | S-039611-102213-DC-001 | 51   | 44               |
| 240-30495-1 MS      | S-039611-102213-DC-001 | 52   | 53               |
| 240-30495-1 MSD     | S-039611-102213-DC-001 | 31   | 27               |
| LCS 240-106885/13-A | Lab Control Sample     | 106  | 95               |
| MB 240-106885/12-A  | Method Blank           | 164 X  | 82               |

**Surrogate Legend**  
 TCX = Tetrachloro-m-xylene  
 DCB = DCB Decachlorobiphenyl

### Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|--------------------|--|-------------------|
|                    |                    | DCPA1<br>(56-120)                              | DCPA2<br>(56-120) |
| LCS 240-106958/4-A | Lab Control Sample | 67   | 85                |
| MB 240-106958/3-A  | Method Blank       | 63   | 85                |

**Surrogate Legend**  
 DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Canton

## Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: TCLP

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID  | Client Sample ID       | DCPA1    | DCPA2    |
|----------------|------------------------|----------|----------|
|                |                        | (56-120) | (56-120) |
| 240-30495-1    | S-039611-102213-DC-001 | 49 X     | 65       |
| 240-30495-1 MS | S-039611-102213-DC-001 | 55 X     | 71       |

### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Date Collected: 10/22/13 16:00

Matrix: Solid

Date Received: 10/23/13 07:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| TCLP      | Leach      | 1311         |     |                 | 106834       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Analysis   | 8260B        |     | 2               | 107028       | 10/25/13 01:18       | TJL1    | TAL CAN |
| TCLP      | Leach      | 1311         |     |                 | 106838       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Prep       | 3510C        |     |                 | 106953       | 10/24/13 10:34       | KEC     | TAL CAN |
| TCLP      | Analysis   | 8270C        |     | 1               | 107070       | 10/25/13 13:56       | TMH     | TAL CAN |
| Total/NA  | Prep       | 3540C        |     |                 | 106885       | 10/24/13 07:14       | MPM     | TAL CAN |
| Total/NA  | Analysis   | 8082         |     | 1               | 107283       | 10/27/13 21:29       | HMB     | TAL CAN |
| TCLP      | Leach      | 1311         |     |                 | 106838       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Analysis   | 8081A        |     | 1               | 107302       | 10/28/13 11:29       | CVD     | TAL CAN |
| TCLP      | Prep       | 3510C        |     |                 | 106957       | 10/24/13 10:40       | AKC     | TAL CAN |
| TCLP      | Prep       | 8151A        |     |                 | 106958       | 10/24/13 10:42       | AKC     | TAL CAN |
| TCLP      | Analysis   | 8151A        |     | 1               | 107392       | 10/28/13 22:21       | DEB     | TAL CAN |
| TCLP      | Leach      | 1311         |     |                 | 106838       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Leach      | 1311         |     |                 | 106838       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Prep       | 3010A        |     |                 | 106937       | 10/24/13 09:56       | ADS     | TAL CAN |
| TCLP      | Analysis   | 6010B        |     | 1               | 107242       | 10/25/13 17:21       | KLC     | TAL CAN |
| TCLP      | Leach      | 1311         |     |                 | 106838       | 10/23/13 14:55       | JS1     | TAL CAN |
| TCLP      | Prep       | 7470A        |     |                 | 106938       | 10/24/13 15:15       | ADS     | TAL CAN |
| TCLP      | Analysis   | 7470A        |     | 1               | 107332       | 10/25/13 18:59       | AMM2    | TAL CAN |
| Total/NA  | Analysis   | Moisture     |     | 1               | 106884       | 10/24/13 06:56       | JAK     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority    | Program       | EPA Region | Certification ID | Expiration Date |
|--------------|---------------|------------|------------------|-----------------|
| California   | NELAP         | 9          | 01144CA          | 06-30-14        |
| Connecticut  | State Program | 1          | PH-0590          | 12-31-13        |
| Florida      | NELAP         | 4          | E87225           | 06-30-14        |
| Georgia      | State Program | 4          | N/A              | 06-30-14        |
| Illinois     | NELAP         | 5          | 200004           | 07-31-14 *      |
| Kansas       | NELAP         | 7          | E-10336          | 01-31-14        |
| Kentucky     | State Program | 4          | 58               | 06-30-14        |
| L-A-B        | DoD ELAP      |            | L2315            | 07-18-16        |
| Nevada       | State Program | 9          | OH-000482008A    | 07-31-14        |
| New Jersey   | NELAP         | 2          | OH001            | 06-30-14        |
| New York     | NELAP         | 2          | 10975            | 04-01-14        |
| Ohio VAP     | State Program | 5          | CL0024           | 01-19-14        |
| Pennsylvania | NELAP         | 3          | 68-00340         | 08-31-14 *      |
| Texas        | NELAP         | 6          |                  | 08-31-14 *      |
| USDA         | Federal       |            | P330-11-00328    | 08-26-14        |
| Virginia     | NELAP         | 3          | 460175           | 09-14-14        |
| Washington   | State Program | 10         | C971             | 01-12-14        |
| Wisconsin    | State Program | 5          | 999518190        | 08-31-14        |

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-30495 Chain of Custody



**14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170**

**Phone: (734) 453-5123**

**Fax: (734) 453-5201**

COC NO.: **PL-10400**

PAGE 1 OF 1

(See Reverse Side for Instructions)

[illegible]

**THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY**

**Distribution:** WHITE — Fully Executed Copy (CRA)

**YELLOW – Receiving Laboratory Copy**

**PINK – Shipper**

**GOLDENROD – Sampling Crew**

CRA Form: COC-10A (20110804)

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10/31/2013

TestAmerica Canton Sample Receipt Form/Narrative  
Canton Facility

Login #: 30495

|   |  |                                     |  |  |  |
|---|--|-------------------------------------|--|--|--|
| Client <u>CRA</u>   |  | Site Name _____                     |  | Cooler unpacked by: _____                      |  |
| Cooler Received on <u>10-23-13</u>  |  | Opened on <u>10-23-13</u>           |  |  |  |
| FedEx: 1 <sup>st</sup> Grd <u>EXP</u> UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____ |  |                                     |  |  |  |
| TestAmerica Cooler # <u>None</u> Foam Box Client Cooler Box Other _____                               |  |                                     |  |  |  |
| Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____                           |  |                                     |  |  |  |
| COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None   |  |                                     |  |  |  |
| 1. Cooler temperature upon receipt  |  |                                     |  |  |  |
| IR GUN# A (CF +2 °C)  |  | Observed Cooler Temp. _____ °C      |  | Corrected Cooler Temp. _____ °C                |  |
| IR GUN# 4 (CF +1 °C)  |  | Observed Cooler Temp. _____ °C      |  | Corrected Cooler Temp. _____ °C                |  |
| IR GUN# 5 (CF +2 °C)  |  | Observed Cooler Temp. <u>5</u> °C   |  | Corrected Cooler Temp. _____ °C                |  |
| IR GUN# 8 (CF -0 °C)  |  | Observed Cooler Temp. <u>5.2</u> °C |  | Corrected Cooler Temp. <u>5.2</u> °C           |  |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes <u>NO</u>            |  |                                     |  |  |  |
| -Were custody seals on the outside of the cooler(s) signed & dated?                                   |  |                                     |  | Yes No <u>NA</u>                               |  |
| -Were custody seals on the bottle(s)?   |  |                                     |  | Yes <u>NO</u>                                  |  |
| 3. Shippers' packing slip attached to the cooler(s)?  |  |                                     |  | Yes No   |  |
| 4. Did custody papers accompany the sample(s)?  |  |                                     |  | Yes No   |  |
| 5. Were the custody papers relinquished & signed in the appropriate place?                            |  |                                     |  | Yes No   |  |
| 6. Did all bottles arrive in good condition (Unbroken)?   |  |                                     |  | Yes No   |  |
| 7. Could all bottle labels be reconciled with the COC?  |  |                                     |  | Yes No   |  |
| 8. Were correct bottle(s) used for the test(s) indicated?   |  |                                     |  | Yes No   |  |
| 9. Sufficient quantity received to perform indicated analyses?  |  |                                     |  | Yes No   |  |
| 10. Were sample(s) at the correct pH upon receipt?  |  |                                     |  | Yes No <u>NA</u> pH Strip Lot# <u>HC385663</u> |  |
| 11. Were VOAs on the COC?   |  |                                     |  | Yes <u>NO</u>                                  |  |
| 12. Were air bubbles >6 mm in any VOA vials?  |  |                                     |  | Yes No <u>NA</u>                               |  |
| 13. Was a trip blank present in the cooler(s)?  |  |                                     |  | Yes <u>NO</u>                                  |  |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                              |  |                                     |  |  |  |
| Concerning _____  |  |                                     |  |  |  |

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: \_\_\_\_\_

15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_



Order Date: 11/15/13

all dates (mm/dd/yy)

Purchase Order No.: 4063770

SHOW PURCHASE ORDER NO. ON ALL LETTERS, INSURANCE CERTIFICATES, INVOICES, PACKAGES, PACKING LISTS, AND FREIGHT BILLS.

Project No.: 082098 Phase: 30 Task: \*\*\*\*

Issued To: AAAAA  
(Vendor) Republic Services, Inc.  
7921 N. Old US Hwy 31  
Argo, IN 46500

Copies to: ☐ Duplicate Originals to Vendor  
☐ Copy to Purchasing Coordinator  
☐ Copy to Vendor File  
☐ Copy to Project Manager  
☐ Copy to Field Equipment Manager File  
(if applicable)

Attn:  
Phone:  
For: 082098 - Disposal

Fax:

Terms: Net 60 Days  
Currency: US Dollars

(Use this line only if MA applicable)

Master Agreement No.: ☐ MA Schedule of Rates ☐ PO Schedule of Prices Governing Law: \_\_\_\_\_

THIS PURCHASE ORDER IS NOT BINDING UNTIL ACCEPTED BY VENDOR. SIGNED DUPLICATE ORIGINAL MUST BE RETURNED TO PROJECT MANAGER BEFORE STARTING ANY WORK.  
RETURN FAX ACCEPTED FOLLOWED BY HARD COPY.  
IN EXHIBIT "A" ATTACHED HERETO, ARE THE TERMS AND CONDITIONS TO WHICH VENDOR AGREES BY ACCEPTANCE OF THIS ORDER. THIS ORDER INCLUDING ITS ATTACHED EXHIBITS  
CONTAINS THE COMPLETE AND FINAL AGREEMENT BETWEEN CRA AND VENDOR AND NO OTHER AGREEMENT IN ANY WAY MODIFYING THE ORDER OR ANY OF ITS EXHIBITS WILL BE BINDING  
UPON CRA UNLESS MADE IN WRITING AND SIGNED BY CRA'S PROJECT MANAGER. VENDOR HAS READ AND UNDERSTANDS THIS ORDER AND AGREES THAT VENDOR'S WRITTEN  
ACCEPTANCE OR COMMENCEMENT OF ANY WORK OR SERVICES UNDER THIS ORDER SHALL CONSTITUTE VENDOR'S ACCEPTANCE OF THIS ORDER ONLY. IF MASTER AGREEMENT NO. IS  
SHOWN HEREON, THE TERMS AND CONDITIONS OF SUCH MASTER AGREEMENT APPLY, OTHERWISE THE TERMS AND CONDITIONS IN EXHIBIT "A" ATTACHED HERETO SHALL APPLY.

*Robin Betke for CRA*  
(authorized CRA signature)

Robin Betke

(printed name)

11/15/13

(date signed)

*James Mike Houlditch*  
(authorized Vendor signature)

*James Mike Houlditch*  
(printed name)

*11/15/13*  
(date signed)

Client: Other Additional Insureds:

Invoice To: Coneatoga-Rovers & Associates, Inc.  
200 W. Allegan Street  
Suite 300  
Plainwell, MI 48080-1397

Ship To: Intersection of County Rd. 10 & John  
Weaver Pkwy  
Elkhart, IN 46514.

Attn: Accounts Payable  
Phone: (269) 685-5181 Fax: (269) 685-5223  
Project Manager: Donald Osterhout

Attn: Donald Osterhout  
Phone: Fax:

Ship Via: FOB Destination (unless noted otherwise):

All taxes included unless noted otherwise

| Line No | Description / Part No. | Account | Date Required | Quantity | Measure | Unit Price | Misc Amt | Total    |
|---------|------------------------|---------|---------------|----------|---------|------------|----------|----------|
| 1       | Disposal               | 5675010 | 11/15/13      | 60.00    | Ton     | 32.10      |          | 1,926.00 |
| 2       | Transportation         | 5675010 | 11/15/13      | 4.00     | Each    | 400.00     |          | 1,600.00 |

Purchase Order Total: 3,526.00

Site contact is Don Osterhout (269) 217-5541. Not to Exceed \$4,000. Scope: Republic Services will  
provide 4 roll-off boxes and transportation and disposal from the Himco site in Elkhart, IN for  
non-hazardous soil.





ALLIED WASTE  
57820 Charlotte Avenue  
Elkhart, IN 46517

A division of REPUBLIC SERVICES

### Account Summary

Account Number 3-0271-0013783  
Invoice Date November 15, 2013  
Invoice Number 0271-000855724  
Previous Balance \$0.00  
Payments/Adjustments \$0.00  
Unpaid Balance \$0.00  
Current Invoice Charges \$3,015.58

### Pay This Amount

**\$3,015.58**  
Due By: 12/05/13

### Contact Information

Customer Service (574) 522-1331  
Customer Service (800) 888-5783

### Important Information

Your invoice may reflect an increase in the environmental recovery fee. For additional information please visit [www.disposal.com](http://www.disposal.com)

To pay on-line or sign up for  
convenient auto pay, go to:  
[www.disposal.com](http://www.disposal.com)

## CONESTOGA-ROVERS & ASSOCIATES

Invoice

Page 1 of 2

### Current Invoice Charges

Himco Site Trust(bayer Health) Intersection Of Cr 10 & Jweaver Pkw (L1) PO 4714 13 19443  
Plymouth, MI

#### 4 - Rolloff (20 Yd) On Call Service (S1) Special Waste

| Date  | Description          | Reference | Quantity     | Unit Price | Amount   |
|-------|----------------------|-----------|--------------|------------|----------|
| 11/13 | Disposal/Recycling   | 930539    | 16.6900 Tons |            | \$535.75 |
|       | Receipt Number 19367 |           |              |            |          |
| 11/13 | Basic Service        | Ron       | 1.0000       | \$400.00   | \$400.00 |
|       | Receipt Number 19367 |           |              |            |          |
| 11/14 | Disposal/Recycling   | 930590    | 21.1000 Tons |            | \$677.31 |
|       | Receipt Number 19365 |           |              |            |          |
| 11/14 | Disposal/Recycling   | 930584    | 18.7700 Tons |            | \$602.52 |
|       | Receipt Number 19366 |           |              |            |          |
| 11/14 | Basic Service        |           | 1.0000       | \$400.00   | \$400.00 |
|       | Receipt Number 19365 |           |              |            |          |
| 11/14 | Basic Service        |           | 1.0000       | \$400.00   | \$400.00 |
|       | Receipt Number 19366 |           |              |            |          |

Current Invoice Charges

\$3,015.58

RECEIVED

NOV 25 2013

CRA-DETROIT

Plainwell  
DETROIT

Approval of Invoice

Project # 82098

Date 11/2/13

Approval JEO

G/L Coding 675010

PO # 4063770

Org Code 4013

| CURRENT  | 30 DAYS | 60 DAYS | 90 DAYS |
|----------|---------|---------|---------|
| 3,015.58 | 0.00    | 0.00    | 0.00    |

S A

- Visit our website, [www.disposal.com](http://www.disposal.com) to make your payment electronically or to sign up for our convenient automatic payment plan.
- Please see reverse side for terms and conditions



57820 Charlotte Avenue  
Elkhart, IN 46517

Please Return This Portion  
With Payment

TOTAL ENCLOSED

Pay This Amount \$3,015.58  
Account Number 3-0271-0013783  
Invoice Date November 15, 2013  
Invoice Number 0271-000855724  
Payment Due Date December 5, 2013

☐ For Billing Address Changes.  
Check Box and Complete Reverse.

Make Checks Payable To:

ALLIED WASTE SERVICES #271  
PO BOX 9001099  
LOUISVILLE, KY 40290-1099

Return Service Requested  
016460-000001-000001-016460 2323661 2240ST03\_S 3 0  
CONESTOGA-ROVERS & ASSOCIATES  
14496 N SHELDON RD  
SUITE 200  
PLYMOUTH MI 48170-2265

30271001378300000008557240003015580003015588